

**Libby Asbestos Superfund Site
The Former Export Plant Site,
Operable Unit 1
Lincoln County, Montana**

Final Remedial Action Report

USACE Contract No. W9128F-11-D-0023

Task Order No.: 0003
EPA RPM: Dania Zinner

July 8, 2013

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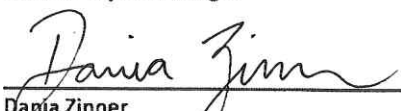
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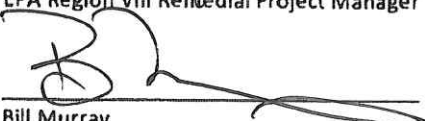
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Abbreviations and Acronyms

AC	asphaltic concrete
ABS	activity-based sampling
AHERA	Asbestos Hazard Emergency Response Act
bgs	below ground surface
BNSF	Burlington Northern Santa Fe
CDM Smith	CDM Federal Programs Corporation
CHASP	Comprehensive Site Health and Safety Plan
City	City of Libby
cy	cubic yards
DEQ	Montana Department of Environmental Quality
ERS	Environmental Resource Specialist
FS	feasibility study
f/cc	fibers per cubic centimeter
ft ²	square foot
GPI	general property investigation
GPS	global positioning system
Grace	W.R. Grace and Company
HASP	Health and Safety Plan
IC	institutional control
ICIAP	Institutional Control Implementation and Assurance Plan
ISO	International Organization for Standardization
LA	Libby amphibole asbestos
JSI	joint site inspection
MDT	Montana Department of Transportation
ND	non-detect
NIOSH	National Institute for Occupational Safety and Health
O&F	operational and functional
O&M	operations and maintenance
OU	operable unit
PCM	phase contrast microscopy
PLM	polarized light microscopy
PPE	personal protective equipment
PRI-ER	Project Resources, Inc – Environmental Restoration, Joint Venture
QA	quality assurance
QAR	Quality Assurance Report
QC	quality control
RA	remedial action
RAO	remedial action objective
RAWP	Response Action Work Plan
RC	removal contractor
RG	remedial goal
RI	remedial investigation
ROD	Record of Decision
ROW	right-of-way
s/cc	structures per cubic centimeter
s/cm ²	structures per square centimeter
	Libby Asbestos Superfund Site

Site	Syracuse Research Corporation
SRC	transmission electron microscopy
TEM	third party quality assurance
TQA	U.S. Army Corps of Engineers
USACE	
≥	greater than or equal to
<	less than
%	percent

Section 1

Introduction

1.1 Site Name and Location

The Libby Asbestos Superfund Site (Site) (CERCLIS # MT0009083840) is located in and around the City of Libby (City), Montana. Libby is the county seat of Lincoln County and lies in the northwest corner of Montana, about 35 miles east of Idaho and 65 miles south of Canada. The Site is divided into eight operable units (OUs) (Figure 1-1).

OU1 encompasses an area of approximately 17 acres and is situated on the south side of the Kootenai River, just north of the downtown area of Libby, Montana. The property is bounded by the Kootenai River to the north, residential property to the east, the BNSF railroad thoroughfare to the south, and State of Montana property to the west (Figure 1-2).

The OU1 site was historically owned and used by W.R. Grace and Company (Grace) for stockpiling, staging, and distributing vermiculite and vermiculite concentrate to vermiculite processing areas and insulation distributors outside of Libby. Because vermiculite mined from Libby has been found to be contaminated with Libby amphibole asbestos (LA), a known human health risk, the U.S. Environmental Protection Agency (EPA) initiated an emergency response action in November 1999 to address questions and concerns raised by citizens of Libby regarding possible ongoing exposures to asbestos fibers as a result of historical mining, processing, and export of asbestos-containing vermiculite.

Based on current land use, the site on the west side of Highway 37 is divided into two distinct areas separated by City Service Road (also known as West Thomas Street): the area of the site to the south of City Service Road (approximately 12 acres) and a 4.7-acre recreational area known as Riverfront Park (formerly known as Riverside Park) to the north of City Service Road. For discussion purposes, these areas will be referred to throughout this report as Area 1 and Area 2, respectively. In addition, the embankments of Highway 37 on both sides of the highway on the south side of the Kootenai River, City Service Road, and Thomas Street are included as part of OU1 because of their immediate proximity to the site and the known presence of vermiculite. These areas will be referred to throughout this report as Area 3.

1.2 Key Features of the Libby Asbestos Superfund Site and OU1

1.2.1 Site OUs

To facilitate a multi-phase approach to remediation of the Site, eight separate OUs have been established. These OUs are shown in Figure 1-1 and include:

- **OU1.** OU1 is the subject of this remedial action (RA) report and includes the former Export Plant. OU1 is situated on the south side of the Kootenai River, just north of the downtown area of the City. OU1 includes the embankments of Highway 37, the former Export Plant, and Riverfront Park (formerly known as Riverside Park). The property is bounded by the Kootenai

River to the north, residential property to the east, the BNSF railroad thoroughfare to the south, and State of Montana property to the west.

- **OU2.** OU2 includes areas impacted by contamination released from the former Screening Plant. These areas include the former Screening Plant (Subarea 1), the Flyway property (Subarea 2), a privately-owned property (Subarea 3), and the Rainy Creek Road Frontages (Subarea 4). The Highway 37 right-of-way (ROW) adjacent to OU2 was included due to the proximity to OU2 and the known contamination in the ROW. For the purposes of this report, the contaminated portion of the Highway 37 ROW is considered part of Subareas 2 and 3 within OU2.
- **OU3.** The mine OU includes the former vermiculite mine and the geographic area (including ponds) surrounding the former vermiculite mine that has been impacted by releases from the mine, including Rainy Creek and the Kootenai River. Rainy Creek Road is also included in OU3. The geographic area of OU3 is based primarily upon the extent of contamination associated with releases from the former vermiculite mine.
- **OU4.** OU4 is defined as residential, commercial, industrial (not associated with former Grace operations), and public properties, including schools and parks, in and around the City, or those that have received material from the mine not associated with Grace operations. OU4 includes only those properties not included in other OUs.
- **OU5.** OU5 includes all properties that were part of the former Stimson Lumber Mill and are now owned and managed by the Kootenai Business Park Industrial Authority.
- **OU6.** The rail yard owned and operated by BNSF is defined geographically by the BNSF property boundaries and the extent of contamination associated with BNSF rail operations. Railroad ROW are also included in this OU and have not been geographically defined.
- **OU7.** The Troy OU includes all residential, commercial, and public properties in and around the Town of Troy, approximately 20 miles west of downtown Libby.
- **OU8.** OU8 is comprised of the US and Montana State Highways and secondary highways that lie within the boundaries of OU1, OU4, and OU7.

1.2.2 Site Contamination

This section provides information about the contamination in OU1 that existed at the time of the Record of Decision (ROD). All areas that were subject to previous investigation and removal actions but no longer pose a threat to human health and the environment will be monitored as part of the Selected Remedy. Previous investigations and removal actions are chronologically presented below.

OU1, from the early 1960s to approximately 1990, was used by Grace as the Export Plant for stockpiling, staging, and distributing vermiculite and vermiculite concentrate to vermiculite processing areas and insulation distributors outside of Libby. Ownership was transferred to the City in the mid-1990s.

The vermiculite deposit that was mined by Grace contains a distinct form of naturally-occurring amphibole asbestos that is comprised of a range of mineral types and morphologies. In various past reports, this form of amphibole asbestos has been termed interchangeably by the EPA as Libby Amphibole or more simply, LA. The term LA refers generally to amphibole materials that originated in the Libby vermiculite deposit, have the ability to form durable, long, and thin structures that are

generally respirable, can reasonably be expected to cause disease, and hence are considered the contaminant of concern at the site.

Because vermiculite mined from Libby has been found to be contaminated with LA and, known to cause human health effects, the EPA initiated an emergency response action in November 1999 to address questions and concerns raised by citizens of Libby regarding possible ongoing exposures to asbestos fibers as a result of historical mining, processing, and exportation of asbestos-containing vermiculite.

1.3 Site Background

Numerous hard rock mines have operated in the Libby area since the 1880s, but the dominant impact to human health and the environment in Libby has been from vermiculite mining and processing. Prospectors first located vermiculite deposits in the early 1900s on Rainy Creek northeast of Libby. Edward Alley, a local rancher, was also a prospector and explored the old gold mining tunnels and digs in the area. Reportedly, while exploring tunnels in the area, he stuck his miner's candle into the wall to chip away some ore samples. When he retrieved his candle, he noticed that the vermiculite around the candle had expanded, or "popped," and turned golden in color.

In 1919, Alley bought the Rainy Creek claims and started the vermiculite mining operation called the "Zonolite Company." While others thought the material was useless, he experimented with it and discovered it had good insulating qualities. Over time, vermiculite became a product used in insulation, feed additives, fertilizer/soil amendments, construction materials, absorbents, and packing materials. Many people used vermiculite products for insulation in their houses in and around the Site and soil additives in their gardens. In 1963, Grace bought the mine and associated processing facilities and operated them until 1990.

From the early 1960s to approximately 1990, the Export Plant was used by Grace for stockpiling and distributing vermiculite concentrate to Grace expansion plants, where vermiculite was heated and "popped" into its expanded form so that it could be used for insulation and other uses, and customers throughout the United States. Ownership was transferred to the City in the mid-1990s.

Throughout its history, portions of both OU1 Area 1 and 2 of the site have been leased to various parties for commercial and non-commercial enterprises. From approximately 1977 to 1997, organized youth baseball events (games and practices) were held at ball fields, which are centrally located in OU1 Area 1. Between approximately 1987 and 2000, the Millwork West Company, a retail lumberyard and building material supplier, leased the northwestern portion of Area 1. As described in Section 2 of this report, buildings and equipment used by Millwork West were removed and/or demolished as part of the removal activities conducted by Grace in 2001 and 2002.

Other commercial and industrial uses of the site also occurred in the past that utilized infrastructure at the site. These other commercial/industrial uses reportedly included a metal scrap dealer and a larch tree gum manufacturer. The infrastructure that supported these businesses included industrial power supply, a railroad spur, and truck scales. This infrastructure was removed during the removal activities conducted at the site.

1.3.1 Current Use

Area 1 is currently owned by the City and is undeveloped, with the exception of a small area of the site currently used by David Thompson Search and Rescue. In 2004, the search and rescue organization

constructed a building containing a main office and a five-bay garage on the northwest portion of the site on the south side of City Service Road. The garage is used for storing search and rescue equipment and vehicles. Several other agencies, including local and state law enforcement, also hold meetings in the main office. EPA has provided guidance to the City when conducting activities at the site that disturb soil.

Area 2, Riverfront Park, is also currently owned by the City and serves a variety of recreational visitors. The main features of Area 2 include two boat ramps, a pavilion, picnic tables, and a pumphouse. The newer of the two boat ramps is used by recreational boaters and commercial fishing outfitters; the older ramp is not commonly used due to swift current at its approach. The pumphouse houses a pump that draws non-potable water from the Kootenai River. The pump was installed jointly by the City and Lincoln County in 1999 to provide a backup water source to local fire departments. The pumphouse is accessed by City personnel in order to perform maintenance on the pump. The pump is connected to an external water spigot, which is used by the City to draw water for street sweeping and other maintenance operations, and for other workers (such as employees of local fill pits and contractors working on EPA's removal program) to draw water primarily for use in dust suppression equipment. Access to Area 2 is unrestricted.

Area 3 is owned and maintained by the Montana Department of Transportation (MDT). MDT currently performs only periodic maintenance of these embankments as needed. The types of maintenance activities conducted by MDT include application of herbicides, replacement of guardrails and guardrail posts, and replacement and maintenance of roadside light posts. Access to this area is unrestricted.

1.3.2 Future Use

Future use of Area 1 is a proposed City park. This RA report addresses the remedial activities that precede the park features development. The City expects that David Thompson Search and Rescue will continue to utilize the northwest portion of the site. A change in land use is not currently anticipated for Area 2 (Riverfront Park), though the river revetment to the east was refortified and is included in this RA report. It is also anticipated that Area 3 will not change use and will remain undeveloped and owned and maintained by MDT.

1.4 Report Organization

In accordance with the EPA guidance for National Priorities List site close-out procedures (EPA 2011a), this report is organized into the following ten sections and three appendices. Minor rearrangement of the section contents recommended by the guidance was made to the report for clarity.

- **Section 1 - Introduction:** provides a description and history of the site.
- **Section 2 - Operable Unit 1 Background:** provides a summary of the pre-ROD investigation and removal actions, the ROD requirements and remedial action objectives (RAOs) for OU1, and a summary of the remedial design.
- **Section 3 - Construction Activities:** provides a summary of the RA construction activities conducted and a summary of soil sample results.
- **Section 4 - Chronology of Events:** provides a chronology of major events for OU1, starting with the signing of the ROD.

- **Section 5 - Performance Standards and Construction Quality Control:** provides a comparison of current site conditions to the RAOs, a description of construction quality assurance and control, and brief overview of quality assurance/quality control (QA/QC) procedures employed.
- **Section 6 - Final Inspections and Certifications:** provides a summary of site inspections, adherence to health and safety requirements during the RA, and the approach for institutional controls (ICs).
- **Section 7 - Operation and Maintenance Activities:** provides a description of the monitoring and maintenance programs that will be in place to ensure that the selected remedy continues to provide protection of human health and the environment.
- **Section 8 - Summary of Project Costs:** provides a summary of project costs associated with the RA to present, including projected operations and maintenance (O&M) costs, and a comparison of actual costs to the cost estimates in the ROD.
- **Section 9 - Observations and Lessons Learned:** provides a description of successes, problems encountered, and solutions related to the RA implementation.
- **Section 10 - Operable Unit 1 Contact Information:** provides a list of contact information for personnel involved in the OU1 RA and O&M, including EPA personnel, Montana Department of Environmental Quality (DEQ) personnel, and RA contractor personnel.
- **Appendix A - Cost Summary:** provides a more detailed breakout of incurred costs reported in Section 8.
- **Appendix B - RA Construction As-Built:** provides RA as-built drawings.
- **Appendix C - Analytical Results:** provides summary tables for confirmation soil results and personal and perimeter air sample results.
- **Appendix D - RA Construction Documents:** provides documentation of RA construction including Quality Assurance Reports (QARs), and soil compaction results
- **Appendix E - Change / Modification Logs:** provides documentation of design modifications made during the removal and restoration activities due to unforeseen conditions.
- **Appendix F - Joint Site Inspection Memorandum:** provides documentation of the joint site inspection findings conducted on August 8, 2012.

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Section 2

Operable Unit 1 Background

Investigation and removal activities have been ongoing at the Site in general, and OU1 in specific, since the EPA began its emergency response in 1999. As a result, much of OU1 had already undergone significant remediation by the time the RI/FS was completed. It was determined that the actions consisting of excavation, offsite disposal and engineered cover were adequate to protect human health and the environment. The following sections summarize pre-ROD investigation and removal activities and outline the ROD requirements. For more details on pre-ROD events, refer to the OU1 Final RI Report (EPA 2009a).

2.1 OU1 Historical Investigations and Response Activities

Multiple investigation, pre-removal, and removal events occurred from 1999 until the signing of the OU1 ROD in 2010. The following is a summary of those events by area. For detailed accounts of these events, including sample information and analytical results, refer to the OU1 Final RI Report (EPA 2009a). Confirmation soil sample depths were measured from the bottom of the excavation (i.e., excavation floor is 0 inches below ground surface [bgs]). All other soil sample depths were measured from existing ground surface at the time of sampling.

In general, investigatory soil samples were analyzed using two Libby Site-specific polarized light microscopy (PLM) methods: a visual estimation method (PLM-VE) (Syracuse Research Corporation [SRC] 2003) and a gravimetric method (PLM-Grav) (SRC 2002). Confirmation soil and investigatory bulk material samples were analyzed using the National Institute of Occupational Safety and Health (NIOSH) polarized light microscopy (PLM) method 9002 (NIOSH 1994a). Air samples were analyzed using one or more of the following methods: the NIOSH phase contrast microscopy (PCM) method 7400 (NIOSH 1994b); the transmission electron microscopy (TEM) Asbestos Hazard Emergency Response Act (AHERA) requirements provided in Appendix A to Subpart E of 40 Code of Federal Regulations 763.86. (EPA 1987); and the TEM method International Organization for Standardization (ISO) 10312 (ISO 1995). Dust samples were analyzed using the TEM AHERA method (EPA 1987). In addition, all of these analytical methods employed Libby Site-specific modifications, as were current and approved by the EPA at the time of analysis.

2.1.1 Area 1

- **Investigation Soil Sampling – December 1999.** In December 1999, a total of 80 soil samples (72 samples and 8 field duplicates) were collected from Area 1. Samples were collected as grab samples from the 0- to 2-inch, 0- to 24-inch, or 2- to 12- inch depth interval and analyzed by PLM. Analytical results ranged from non-detect (ND) to 5 percent (%) LA.
- **Investigation Soil and Air Sampling – March/April 2000.** Between March 10 and 11, 2000, 17 grab soil samples and one duplicate were collected from the 0- to 2-inch depth interval, and 16 grab soil samples and five field duplicates from the 2- to 12-inch depth interval. One grab sample was also collected from bags of vermiculite stored outside the warehouse. PLM analytical results ranged from ND to 10% LA.

- In addition to soil sampling, ambient air samples were collected from various locations within the Area 1 boundary on separate days in April 2000 from high-volume stationary air samplers. TEM analytical results indicated LA in ambient air at all three sample locations at concentrations ranging from 0.0001 to 0.0023 structures per cubic centimeter (s/cc).
- **Activity-Based Sampling (ABS) – June 2000.** Two samplers were monitored during the event: one while sweeping the floor of the planar shop's break room; the other while sweeping and moving bags of vermiculite insulation inside the bag house portion of the planar shop. TEM analytical results for the two personal air samples indicated LA in concentrations of 0.6470 s/cc and 2.3666 s/cc for the sweeper and the bag mover, respectively.
- **Area 1 Removal Event – July 2000 through January 2001.** Grace temporarily relocated the onsite business (Millwork West), cleaned five onsite historic buildings and the building's contents, excavated and disposed of vermiculite and LA-contaminated soil and debris, and restored the property. Contaminated materials were disposed of at the former Libby vermiculite mine.
- During soil excavation, 63 confirmation soil samples were collected from the floor of the excavation of which a total of 18 split samples and one duplicate split sample were analyzed. PLM results ranged from ND to 2% LA. Grace, however, was directed to remove additional soil in 4- to 6-inch increments until EPA removal clearance criterion of less than (<) 1% LA was met in each section of the excavation.
- The backfill materials used at Area 1 were obtained from the EPA-approved source Plum Creek pit located in Libby. Restoration at Area 1 consisted of backfilling the entire excavated area with a sufficient layer of common fill to bring the grade to within 6 inches of the original surveyed grade. The final 6 inches were filled with either gravel or topsoil, as appropriate, depending upon the original surface conditions.
- **Area 1 Investigation Sampling – March/April/August 2001.** A total of 15 soil samples were collected at Area 1, as follows:
 - three grab samples were collected from the 0- to 1-inch depth interval near site buildings;
 - five grab samples and one duplicate were collected from the 0- to 6-inch depth interval near site buildings;
 - one grab sample of in-place 1 ½ -inch minus grade fill material (from the Granite pit) from the 0- to 6-inch depth interval;
 - one 3-point composite sample was collected from the 0- to 4-inch depth interval at the site on/off ramp; and
 - one 3-point composite sample was collected from 0- to 4-inch depth interval near the BNSF railroad tracks.

Four grab samples were collected from the 0- to 4-inch depth interval. Analytical results for LA by PLM ranged from ND to 35% in the soil samples, and ND for LA for the in-place fill material sample.

Thirty-nine bulk material samples (e.g., wood shavings, insulation, debris, etc.) were collected from within the five buildings. Seven samples were collected within the pole barn; seven within the planar shop; six within the scale house/lumber storage building; 13 within the warehouse; and six within the shed. Analytical results by PLM of the bulk material samples ranged from ND to 5% LA.

Two, single-point dust samples were collected; one from a horizontal surface inside the warehouse and the other from the exterior surface of the warehouse foundation. TEM analytical results indicated 169,836 structures per square centimeter (s/cm^2) for LA in dust on the building's foundation, while the indoor sample was ND for LA. Four separate 3-point composite dust samples were collected from horizontal surfaces inside the pole barn, the surface of equipment stored inside the shed, and from the surface of equipment and supplies stored inside each of two site storage containers. Analytical results indicated 129,127 s/cm^2 ; 97,455 s/cm^2 ; 19,491 s/cm^2 ; and 40,200 s/cm^2 for LA, respectively.

- **Area 1 Removal Event – September/October 2001.** Grace conducted a cleanup action to address residual LA contamination in site buildings and soil. Ultimately, four of the five buildings (all but the planar shop) were demolished and additional soil was excavated from the site. The contaminated soil and debris was disposed of at the former Libby vermiculite mine. Confirmation soil samples and dust, for ambient air and personal air, were collected during the removal activities.

Twenty-three subsurface confirmation soil samples were collected from depths varying between 16 and 50 inches bgs in the former pole barn, former warehouse, former scale house/lumber storage building, former shed, east ball fields, and BNSF spur extending just south of the planar shop. Composite samples of between two and five points were collected. Analytical results were <1% LA by PLM. Thirty-nine additional surface soil samples were collected from suspected of cross-contaminated areas that were previously remediated. These surface samples were 5-point composites from the 0- to 2-inch depth interval. Analytical results were either ND or <1% LA by PLM. In order to evaluate cleanup needs, eight additional soil samples were collected from areas that were not anticipated to have been impacted by removal activities; six were surface samples from 0 to 2 inches bgs, and two were subsurface samples from 8 to 10 inches bgs. PLM results of the surface samples were ND for LA, while the subsurface samples were <1% LA. Consequently, Grace covered impacted areas with a 4-inch layer of crushed gravel. Restoration was conducted with backfill materials obtained from the Plum Creek gravel pit located in Libby.

One 3-point composite dust sample was collected from the surface of decontaminated lumber moved outside of the exclusion zone. Analytical results were ND for LA. One 3-point composite dust sample was collected from the surface of a lumber pile located inside the exclusion zone. Analytical results indicated LA loading at 365 s/cm^2 . Additionally, six 3-point composite dust samples were collected in and around the planar shop. Analytic results for the six samples indicated LA loading of between 609 s/cm^2 and 444,636 s/cm^2 . All dust samples were analyzed by TEM.

Thirty-six personal air monitoring samples were collected during this removal effort. Analytical results for thirty samples, analyzed via TEM ISO 10312, indicated total LA concentrations ranging from ND to 0.0919 s/cc . Thirty-three samples were analyzed via TEM AHERA, indicating total LA concentrations ranging from ND to 0.09290 s/cc . Thirty-two samples were

analyzed via PCM, indicating concentrations ranging from ND to 0.231 fibers per cubic centimeter (f/cc).

- **Area 1 Investigation Sampling – April/May 2002.** Two, 3-point composite soil samples were collected from areas at the site where suspect mine-related material had been identified. Visible vermiculite was observed and believed to be cross-contaminated from BNSF railroad excavation activities. Analytical results indicated both samples contained <1% LA by PLM.

Two bulk materials samples were collected from the interior of equipment owned and operated by Millwork West. Analytical results from both samples were ND for LA by PLM.

- **Area 1 Removal Event – October through December 2002.** Grace began removing the remaining building material and debris from Area 1. Contaminated soil from the footprint of the demolished planar shop and from an area near the BNSF railroad tracks was also removed. Contaminated soil and building materials were disposed of at the former Libby vermiculite mine. Forty-four, 5-point composite subsurface confirmation soil samples were collected from the floor of the excavations. A total of 36 soil samples were analyzed by PLM, while 8 samples were archived at a project-contracted laboratory. Analytical results were either ND or <1% LA. Restoration was conducted using backfill materials from the Plum Creek pit.

Ten personal air samples were also collected and analyzed via PCM and analytical results ranged from ND to 0.492 f/cc.

- **Area 1 City Water Line Installation – June through September 2006.** The City began excavating a trench through the field portion of Area 1 in preparation for installing a new drinking water supply pipeline. A total of eight, 5-point composite soil samples were collected from the excavation spoils: four from the stockpiled material in the 0- to 2-inch depth interval and four from the 0- to 2-inch depth interval in the area adjacent to and surrounding the stockpile. Analytical results ranged from ND to 3% LA by PLM. Spoils were removed and transported to the former Libby vermiculite mine for disposal.
- **Other Area 1 Activity.** The City obtained approximately 50 cubic yards of angular riprap rock from the United States Army Corps of Engineers' (USACE's) Fisher River Road pit to cover two areas of exposed orange fencing: one revetment along the Kootenai River bank in between the new and old boat ramps and the other on the surface of the old boat ramp.
- **Area 1 Investigation Sampling – September to November 2007.** Forty-two surface (0 to 6 inches bgs) soil samples (including 3 field duplicates) were collected from Area 1. Samples were collected as 30-point composite samples. Analytical results indicated 29 samples as non-detect and 13 samples with trace amounts of LA by PLM.

Visible vermiculite observations were made at a total of 1,170 point inspections. Vermiculite was not observed in 1,032 (88.2%) of the point inspections in Area 1. Low levels of vermiculite were observed at 118 (10.1%) of the point inspections; medium levels were observed at 16 (1.4%), of the point inspections; and high levels were observed at 4 (0.3%), of point inspections.

ABS was conducted in the David Thompson Search and Rescue building. A total of 22 air samples were collected during the indoor ABS activities. TEM analytical results of the active-garage scenario ranged from ND to 0.0699 s/cc; active-meeting room results ranged from 0.0011 s/cc to 0.0088 s/cc; and passive-meeting room results ranged from 0.0003 s/cc to

0.0079 s/cc. Additionally, a total of nine microvacuum dust samples were collected from the building, three each from the meeting room, garage, and rescue vehicles. LA was detected in one sample collected from the meeting room and one sample collected from the garage. The total LA loading for the meeting room and garage dust samples were reported at 75 and 20 s/cm², respectively. Samples were analyzed by TEM.

Personal air samples were collected from the workers operating a bush hog. A total of eight personal air samples were collected during this activity. Of the eight samples collected, LA was detected in six samples and concentrations ranged from 0.0038 s/cc to 0.0715 s/cc by TEM.

2.1.2 Area 2

- **Area 2 Investigation Sampling – May/July 2003.** A 2-inch thick layer of vermiculite along the west side of the boat ramp was discovered during construction of a new boat ramp. The layer was approximately 8 to 10 inches below the ground surface. Additional vermiculite containing soil was exposed during renovation of the picnic area. A visual inspection and soil sampling was conducted. Three, 5-point composite soil samples from the 0- to 1-inch depth interval were collected. Analytical results were ND by PLM.

Two 5-point composites soil samples from the 0- to 6-inch depth interval were subsequently collected. Results for the two samples, which were analyzed by all three PLM methods, ranged from ND to <1% LA.

- **Area 2 Pre-Removal Event – September/October 2003.** Pre-Removal characterization was conducted, which included a verbal interview, site visual inspection, and surface and subsurface soil sample collection. The verbal interview confirmed historical on-site vermiculite storage.

Vermiculite was observed at several locations within the park: notable amounts were observed on the southwest side embankment and at the bottom of the embankment on the east side of Highway 37.

Soil sampling activities included both surface and subsurface test pit samples. A total of 19 surface soil samples were collected. All surface samples were either 4- or 5-point composites from the 0- to 6-inch depth interval.

Twelve test pits were excavated and subsurface sampled. Grab samples were collected at depths ranging from 12 to 39 inches bgs. PLM analytical results indicated that LA was present in nine of the 26 surface soil samples at levels ranging from trace to <1%, and in three of the 18 subsurface soil samples at trace levels.

- **Area 2 Removal Event – October/November 2003.** Within Riverfront Park, soil was excavated to a depth of 12 inches bgs throughout the park area, with the exception of the Kootenai riverbank and the northeast side of City Service Road where soils were excavated to a depth of 6 inches bgs. Excavation of the embankment on the southeast side of City Service Road was not conducted. Additionally, where visible vermiculite was observed or where elevated LA analytical results were detected above EPA's removal clearance criteria, additional 6-inch lifts were removed, iteratively, to a maximum depth of 3 feet bgs. However, along the riverbank and City Service Road embankment, maximum excavation depths were 12 inches bgs.

Fifty-nine, 5-point composite confirmation soil samples were collected at depths ranging from 6 to 36 inches bgs. Analytical results for the samples were either ND or <1% LA by PLM, with the exception of one sample, which was 2% LA, prompting removal of an additional 6-inch layer of soil. Analytical results for the subsequent excavation were <1% LA.

As a visual barrier, orange snow fencing was placed at the excavation floor. The area was restored to original grade using materials from the Boothman Pit and hydroseeded.

A new boat ramp was installed downstream of the existing boat ramp. The removal contractor (RC), Environmental Restoration, obtained riprap from the USACE Fisher River Road pit, which was placed along the toe of the bank.

- **Other Area 2 Activity – July 2007.** Subsurface vermiculite was brought to the surface during the installation of cable by a phone company from a depth of approximately two feet bgs. The excavated soils were disposed of at the former Libby vermiculite mine. The area was covered with four to six inches of rock.
- **Area 2 Investigation Sampling – September 2007.** Nine, 30-point composite surface samples were collected. All analytical results were ND for LA.

A total of 270 point inspections for visible vermiculite were made. Vermiculite was not observed at 242 (89.6%) of the point inspections. Low levels of vermiculite were observed at 28 (10.4%) of the point inspections.

- **Area 2 Quick Response Removal Event – May 2008.** Soils were excavated to place foundation footings and a full concrete slab in the construction of a new City pavilion. The footings area was excavated to an approximate depth of 57 inches bgs. The excavated soils were disposed of at the former Libby vermiculite mine. The second area was excavated to provide a construction access ramp to the bottom of the City pavilion excavation. Restoration activities were performed by the City using 3 inches of common fill.
- **Area 2 Quick Response Removal Event – July 2008.** Several small areas containing medium to high amounts of vermiculite as well as what appeared to be raw LA were found. The type of vermiculite observed was apparently not from a local source, but was suspected as an import. No vermiculite was observed in these areas after the removal was completed.

2.1.3 Embankments Area 3

- **Area 3 Embankment Investigation Activities – September 2007.** Twenty-two, 30-point composite surface samples from 0-6 inches bgs were collected. Analytical results by PLM indicated 19 samples as ND, two as trace, and 1 as <1% of LA.

Fifteen grab soil samples were collected from 0 to 24 inches bgs. PLM LA analytical results ranged from ND to trace and vermiculite was not observed in any of the samples.

A total of 660 point inspections for visible vermiculite were made. Vermiculite was not observed at 584 (88.5%) of the point inspections. Low levels of vermiculite were observed at 58 (8.8%) of the point inspections; medium levels were observed at 14 (2.1%); and high levels of vermiculite were observed at 4 (0.6%) of the embankment point inspections.

2.1.4 Other OU1 Investigation Activities

- **OU1 Ambient Air Sampling– October 2006-2007 and November/December 2007.** A total of 143 outdoor ambient air samples were collected from four property address locations: 1915 Kootenai River Road, 247 Indian Head Road, Mineral Avenue, and 1427 Highway 37 (J. Neils Park). Analytical results by TEM for LA ranged from ND to 0.00016 s/cc, with an average concentration of 0.00001 s/cc. Thirty-two results were above the average and the remaining 111 results were below the average.

2.2 ROD Requirements

This section describes the RAOs and Selected Remedy for the OU1 site.

2.2.1 Remedial Action Objectives

RAOs are media- and source-specific goals to be achieved through completion of a remedy that is protective of human health and the environment. These objectives are typically expressed in terms of the contaminant, the concentration of the contaminant, and the exposure route and receptor. They provide the basis for determining whether protection of human health and the environment is achieved for the selected remedy. RAOs for OU1 were developed by evaluating several sources of information, including results of the risk assessments conducted as part of the OU1 RI Report (EPA 2009a) and current and future land use of the site.

Based on determinations of human health risks (EPA 2009b), LA in vermiculite and/or soil was likely to pose a current exposure risk to human receptors through inhalation of fibers released during active soil disturbance activities and inhalation of fibers in outdoor (ambient) air. It was expected that any risk from potential future disturbances that would expose subsurface, LA-containing soil might be substantially higher than under the current conditions prior to the RA. Site conditions are such that surface soils have either been capped or else removed and backfilled with clean soil as per the established removal clearance criteria for the RA.

The current and anticipated future land uses for the site were an important consideration for the development of RAOs to ensure remedial alternatives are protective of human health and the environment. Area 1 is owned by the City and a City park development is proposed for the majority of this area. Area 2 (Riverfront Park) is also owned by the City and used by the public. Area 3 consists of Highway 37 and City Service Road eastbound embankments, maintained by the MDT and the City, respectively, with no known current plans to disturb the in-place soils. The northwest corner of the site is currently occupied by the David Thompson Search and Rescue building.

The RAOs for the site presented below were based on anticipated future recreational, commercial, and/or light industrial use of the site:

1. Break the exposure pathways for inhalation of LA fibers that would result in unacceptable cancer risk or non-cancer hazard.
2. Control erosion of contaminated soil by wind and water from source locations to prevent exposures and the spread of contamination to unimpacted locations.
3. Implement controls to prevent uses of the site that could pose unacceptable risks to human health or the environment or compromise the remedy.

At a typical site, RA is required when contamination poses cancer risks that exceed 1 in 10,000 (or $1\text{E-}04$) (EPA 2010). The RAOs for OU1 addressed LA contamination that poses cancer risks in the ranges between 1 in 10,000 and 1 in 1,000,000 ($1\text{E-}06$). Remedial goals (RGs) are typically used to guide such RA. RGs are defined as the average concentration of a chemical or a contaminant in an exposure unit associated with a target risk level such that concentrations at or below the RG do not pose an unacceptable risk. However, RGs were not developed for OU1, or the remainder of the Site (EPA 2010).

RGs are typically developed by computing the concentration of a contaminant in soil that corresponds to an excess cancer risk of $1\text{E-}04$. However, such a computation is not possible at present because of the high variability in the relationship between asbestos in soil and asbestos in air. Even if the computations were possible, the ability to measure asbestos in surface and subsurface soil is presently limited by the available technologies and methods (EPA 2010). Additionally, noncancer risks from inhalation of asbestos fibers have also been recognized, but there is no current methodology to quantify noncancer risks for asbestos (EPA 2009b).

For these reasons, RGs for asbestos were not established for site soils. If the RAOs for asbestos contamination are achieved through implementation of the Selected Remedy, then risks to humans from inhalation exposures to asbestos are expected to be acceptable (EPA 2010).

2.2.2 Selected Remedy

As presented in the ROD for OU1 (EPA 2010), the Selected Remedy for remediation of asbestos-contaminated soil is a combination of Alternative 3b (In-Place Containment of Contaminated Soil, Removal of Contaminated Soil for Utility Corridors, Offsite Disposal, and ICs with Monitoring) and Alternative 4a (Partial Removal of Contaminated Soil, Offsite Disposal, and ICs with Monitoring). These removal and containment remedies will achieve all RAOs by eliminating current exposure pathways and monitoring to ensure that the remedy continues to protect human health and the environment. A summary of the Selected Remedies, as detailed in the ROD, is as follows:

- The majority of the remediation work will consist of containment via construction of soil covers to encapsulate areas of surface contamination. The FS anticipated that approximately nine acres of the site would be covered.
- Removal and offsite disposal of contaminated materials will be used in the proposed utility corridor areas. Flexibility to remove other areas of contamination is included to preemptively remove contaminated materials as land use issues develop.
- A visible marker layer will be placed at the bottom of the cover to denote the extent of the cleanup.
- Clean fill for excavations and construction of covers will be obtained from offsite subsoil and topsoil sources outside of the Libby valley. Final quantities will be evaluated in the design process.
- Removal and offsite disposal of contaminated materials will be used in the proposed utility corridor areas which are expected to encompass approximately 10 percent of Areas 1 and 2. Additionally, by adding Alternative 4a to the selected remedy, EPA obtains the flexibility to remove other areas of contamination that may need to be removed preemptively due to land use issues.

- Employ ICs to minimize risks posed to human receptors from remaining LA in subsurface soil by limiting uses that might create an exposure pathway or damage the remedy. EPA anticipates that ICs for OU1 will include governmental and/or proprietary land use restrictions, and informational devices. Governmental ICs, for example, may impose land or resource restrictions using government authority, such as building codes, permits, or zoning regulations that are administered by local agencies. Proprietary controls, either private, governmental, or a combination of the two, typically involve landowner agreements or easements that restrict certain activities on the property. ICs are considered an integral part of the remedy, so development and implementation of the ICs will be conducted as part of the remedial action.
- If needed, install engineered controls to warn the public and limit access to the site.
- Maintain the integrity of the selected remedy and monitor the remedy to ensure that the controls are effective.

Points of clarification presented in Section 14, Documentation of Significant Changes of the ROD are regarded as subcriteria for determining whether the remedy put in-place at OU1 meets the criteria for determination of operational and functional (O&F). The following is a summary of the points of clarification and the manner in which the EPA will address them:

- **Risk Assessment.** The EPA will conduct a quantitative, OU1 post-construction risk assessment, to include ABS, at OU1 following the completion of construction to confirm effectiveness of the remedy (EPA 2010). It is anticipated that risk assessment sampling activities will be conducted in summer 2013.
- **New Information.** When the site-wide risk assessment is complete, the agencies will re-evaluate the remedy in accordance with the review requirements at CERCLA Section 121(c). New information concerning toxicity factors will also be evaluated in five-year reviews. If unacceptable exposures are identified, the EPA will take action as necessary to ensure that the soil-to-air pathway is broken. Actions may include additional excavation, improving covers, and/or strengthening ICs. In addition, the EPA will conduct five-year reviews as part of the ongoing O&M of the remedy.
- **Planned Future Uses.** The EPA will work closely with the City during design so that design can complement any planned future uses.
- **Removal of Contamination at Depth in Excavations.** Encountered LA source materials during excavation activities will be removed to a maximum of 3 feet below finished grade. A visible barrier marking the extent of excavation will be placed at the bottom of the excavation before backfilling.

The implementation of the Selected Remedies is detailed in Sections 3 and 6.3 of this report. An evaluation of the performance of the Selected Remedies in terms of satisfying the RAOs is presented in Section 5.1.

2.3 Remedial Design

Subsequent to the ROD completion and preceding construction, the City retained a designer to develop the proposed park. RA design drawings (EPA 2011b) were prepared in response to the City's proposed design for this RA. Construction activities at the site were conducted in accordance with the Libby Site Response Action Work Plan (RAWP) (USACE 2010a), and the design drawings. OU1 remediation plans were prepared to supplement the RAWP and address OU1 site-specific remediation. During construction, modifications were made to these site-specific RAWP, as documented in Section 3 and the as-built drawings provided in Appendix B.

Section 3

Construction Activities

RA construction activities were conducted in accordance with the RAWP (USACE 2010) and design drawings (EPA 2011b). Construction activities included:

- Mobilization and Site Preparation;
- Excavation and Disposal of Contaminated Soil;
- Riverbank revetment;
- Boat ramp restoration;
- Backfill; and
- Erosion and stormwater control.

The following is a brief description of RA construction activities from mobilization through demobilization. RA construction as-builts and construction-related documents are provided in Appendices B and C.

3.1 Mobilization and Site Preparation

The mobilization and site preparation for this RA commenced on August 9, 2011 and followed the same progression as previous removal activities at the site. The necessary equipment including, but not limited to, a decontamination trailer, excavator, and potable and non-potable water tanks were mobilized to the site. The RC, PRI-ER, delineated the removal areas by removing the existing safety fence and replacing it with new orange fencing and yellow caution tape. The site was cleared of ground-cover vegetation to facilitate the surveying crew. U-Dig, the utility locate service, was contacted and utilities were marked within the work zone prior to excavation. Any hazards existing within the work zone were isolated or removed. RC and third-party quality assurance (TQA) personnel, CDM Smith, walked through the site during this set-up to ensure that each contractor had current copies of remediation designs (Appendix B) and concurred on project design objectives. Following this inspection, asbestos tape was added to the orange construction fencing to establish the removal areas as an exclusion zone. The RC collected pre-excavation photos to document current site conditions when the RC took control of the site.

3.2 Removal Activities

One of the main construction components of the RA was the excavation and offsite disposal of contaminated soil. OU1 is unique compared to the other Libby OUs in that finish grade was not pre-existing. The City proposed City park development for OU1. The City contracted with a designer, WGM Group, who provided site finish grades. These grades were used to determine depth of excavation across the site, based on a minimum 18 inch cover of import soil over native soils containing <1% LA. An additional 18 inches of soil was excavated for those areas with analytical results greater than or equal to (\geq) 1% LA. The excavation area would be resampled and analyzed for informational purposes, i.e. soils with elevated concentrations \geq 1% LA would have a minimum 36 inches cover of import soil.

Furthermore, an orange construction barrier was placed on the subgrade surface prior to import soil placement. The marker barrier was installed as a visual means of identifying the interface between native and import soils.

A comprehensive excavation plan was created and represented in the field using a 25 feet on-center alpha-numeric grid system. Each grid intersecting point had a construction stake with elevation information that the excavation operators and soil sample technician could spatially reference on the plans.

A total of 25,656 cubic yards (cy) of contaminated soil was removed from OU1 and disposed of at the former vermiculite mine. Volume of soil removed was not tracked separately by area because areas were excavated concurrently. Specific removal activities by area are described in the following subsections.

3.2.1 Excavation of Contaminated Soil

3.2.1.1 Area 1

Site preparation activities began August 17, 2011 with removal of existing railroad structures, a loading ramp and railroading siding, which were contained within the exclusion zone. Prior to intrusive excavation, these structures were removed, decontaminated, and staged for the City's off-haul by the RC.

Site removal activities began on September 30, 2011. Excavation began east of and at the northeast corner of the David Thompson Search and Rescue parking area and adjacent to the south edge of pavement of City Service Road and proceeded east. Two additional excavation crews began south of and adjacent to the first excavation crew, working in an easterly direction. When each excavation crew completed excavation to final depth and to the easterly limits of construction, the crews would relocate to the westerly limits of excavation south of the just completed section and begin excavating anew in the same manner. This facilitated disposal trucks access to the site and to the excavation crews traveling on imported laydown soil, mitigating cross-contamination.

Area 1 excavation activities were completed for the 2011 construction season on October 24, 2011 at the southeast corner of the site. On October 29, 2011, excavation activities were completed at the proposed detention basin for future stormwater control. No further intrusive work was conducted for the remainder of 2011.

A cooperative agreement was reached between the City and the EPA for a new City sanitary sewer line where City employees would construct the entire system and the RC would only be responsible for transportation related activities, disposal of excavation spoils at the mine, and the final 12-inch trench backfill section. Sanitary sewer trench construction began May 10, 2012 at the existing sanitary sewer manhole north of and adjacent to the northwest corner of the David Thompson Search and Rescue building and progressed 356 feet to the southeast and 338 feet to the southwest. The new sanitary sewer system was completed May 30, 2012.

On June 8, 2012, removal activities reconvened with the final excavation of Area 1 at City Service Road. In accordance with the design drawings; City Service Road asphaltic concrete (AC) removal was staged where the westbound lane was first removed in order to maintain one-way traffic on the eastbound lane. AC removal began adjacent to the David Thompson Search and Rescue building and progressed east. When the westbound AC was removed, the same process was employed for the eastbound lane. AC removal was completed on June 12, 2012 and the roadway base section excavation

began at the easterly limits on June 13, 2012. The roadway base section excavation was completed on June 15, 2012. The roadway was realigned and replaced with crushed rock as discussed in Section 3.3.

3.2.1.2 Area 2

On February 28, 2012 the RC mobilized to the site to begin work in Area 2 to reinforce the existing deteriorated revetment along the south river bank of the Kootenai River, beginning just east of the gravel boat ramp and extending just west of the concrete boat ramp. Clearing and grubbing preceded rip rap placement. Rip rap placement followed the proposed design with D85-D100 sized rock submerged to establish the toe of slope within the river bottom, where D85 and D100 are the rock sizes that correspond to 85% and 100% of the sample passing by weight. Following the toe of slope establishment, USACE Class V rock was placed on the embankment toe and continued upslope to the top of the embankment. A total of 3,850 tons of rock were placed as part of the revetment. Revetment placement was completed March 13, 2012, though some minor hand work continued the following day to chink voids and ensure three-point contact on unstable rocks.

Subsequent to the revetment construction, the new Armorflex™ mat boat ramp construction began May 30, 2012 with the excavation at the existing concrete ramp's toe of slope. A Portland cement concrete pad was placed in advance of the proposed boat ramp surface which was completed June 12, 2012. Work resumed at the boat ramp on June 18, 2012 to install the Armorflex™ mat. The Portland cement concrete anchors for the boat ramp were poured on June 19, 2012 and surrounding area along the embankment was dressed with rip rap which was completed August 10, 2012.

3.2.1.3 Area 3

The RC began excavation at Area 3 concurrent with the Search and Rescue parking area excavation, at Highway 37 west embankment on August 18 and completed August 25, 2011. The embankment soil was excavated to a depth of approximately 6 inches bgs. On August 19, 2011 the RC began the 6-inch excavation of the City Service Road south embankment in Area 3. Uniform removal of contaminated soil to approximately 6 inches bgs was excavated in the two discrete locations of Area 3 on both east and west embankments of Highway 37, north of City Service Road. Excavation began on April 19, 2012 at the east embankment followed by the west embankment which was completed on April 26, 2012.

3.2.2 Offsite Disposal of Contaminated Soil

As specified in the Selected Remedy, the contaminated soils were excavated and hauled to the former vermiculite mine for offsite disposal. All haul trucks and trailers working on the Libby project were required to have water-tight beds. These sealed beds allowed water conditioned soil, for the purpose of fugitive dust mitigation, to be placed in the bed of the dump truck without leaking contamination. In addition, all trucks and trailers used tarps secured over the top of the bed to mitigate fugitive dust during transport. To prevent contamination of the interior of the truck, a negative air system maintained positive pressure in the cab of the truck while in excavation areas and traveling on the mine road. These trucks and trailers delivered material to an area along the mine road called the amphitheater and then underwent a thorough decontamination before leaving the mine. Soil was taken from the amphitheater by mine-designated vehicles to areas farther up the mine road for disposal.

3.2.3 Confirmation Soil Sampling

Confirmation composite soil samples were collected from the bottom of discrete excavated areas, in sizes no larger than 2,500 square feet by combining the 25-foot excavation grid system into 50-foot cells. These samples were collected, handled, and analyzed in accordance with the Response Action Sampling and Analysis Plan (EPA 2011c). The sample depths for confirmation soil samples were measured from original ground surface to the excavation floor. Sample depths typically ranged from 18 to 36 inches bgs across the site.

A total of 241 confirmation soil samples were collected and analyzed throughout the duration of the RA. Samples were 30-point composites and were generally collected from the 18 to 20-inch depth interval. A 30-point inspection for visible vermiculite was also performed in each sampled area to ensure clearance removal protocols were achieved. The analytical results for these samples ranged from ND to 5% LA by the NIOSH PLM 9002 method (NIOSH 1994a). A total of eight out of the 241 samples had results $\geq 1\%$ LA. Figures 3-1 through 3-4 show the confirmation sample areas beneath the engineered cover at which residual contamination may be encountered across OU1. Sample results are provided in Appendix C.

3.3 Backfill, Compaction and Placement of Cover

All backfill materials were sourced from borrow areas at Ward Pit, Noble Pit, Nickelback Pit, USACE Fisher River Rip Rap Pit, Wolf Creek Rip Rap Pit, Libby City/County Pit, Granite Pit and Chapman Pit outside of the Libby valley and were tested prior to placement. As detailed in the RAWP (USACE 2010a), backfill materials were tested to ensure that they are both within specifications for the respective fill type and that they were not contaminated with LA.

Per the RAWP and design drawings, a visible marker layer was placed at the bottom of the excavation prior to backfill. Orange construction fence was placed directly upon the finished subgrade prior to placing import soils.

The project comprised of six typical cross sections with varied soil types and thicknesses depending on the areas' designed uses. The sections ranged from structural road section to landscaping. Soil was nominally placed in 8-inch lifts and dynamically compacted to the designed relative compaction specification and elevation. Three types of import soil were used for cover material; common fill (7,377 cy), $\frac{3}{4}$ -inch-minus crushed base (6,581 cy), and top soil (4,024 cy). The City Service Road was realigned and replaced with a minimum 8-inch thick sub-base using 3-inch minus crushed rock, followed by a 10-inch layer of $\frac{3}{4}$ -inch minus sub-base coarse. Details of the cross sections are shown in the OU1 as-built drawings provided in Appendix B.

Restoration activities began with the placement of the visual barrier on October 4, 2011. Import soil placement and compaction began on October 7, 2011 and the visual barrier placement advanced ahead of soil placement across the site. Site soil cover placement was completed on June 29, 2012.

3.4 Erosion and Stormwater Control

All excavated areas were either hydroseeded (272,592 ft²) by a landscape contractor or received a structural base material (167,328 ft²) to stabilize the surface soils from erosion. Erosion matting (35,856 ft²) was also placed on the embankment areas that were excavated. Structural base material placement was staged as part of the import soil placement, hydroseeding, and tree planting which was completed on June 29, 2012. Drainage features were also incorporated into the design in the form of

swales discharging into trench drains and sumps to manage stormwater runoff. These measures will help to ensure that the Selected Remedy remains protective of human health and the environment. Ongoing O&M includes routine visual inspections of the erosion control materials and communication with the City on work in and around OU1.

Construction as-builts for OU1 are presented in Appendix B.

3.5 Demobilization

Equipment used during construction activities was decontaminated, as necessary, and demobilized from the site as soon as that particular piece of equipment was no longer needed. As a result, demobilization from OU1 occurred throughout RA construction activities. The final demobilization date was June 29, 2012, as documented in the QAR in Appendix D.

3.6 Design Modifications During Construction

During the removal and restoration activities, unforeseen conditions were encountered and design revisions were made. Consequently, forty design modifications were made over the course of the project. Design modifications were executed by the RC in real time with no delay impact to the project. Some of the major modifications are as follows:

- Mod #6: increased the thickness of the road-base materials from 6 inches of $\frac{3}{4}$ -inch minus base to 10 inches of $\frac{3}{4}$ -inch minus crushed base course;
- Mod #18: as indicated on the as-builts, marker barrier was placed in limited areas of the David Thompson Search and Rescue parking area in accordance with an earlier revision of the design documents;
- Mod #19 and #21: modified the excavation depths to avoid damage to shallow utilities;
- Mod #24: replaced 8 inches of common fill with 6 inches of topsoil on embankments; and
- Mod #40: Enlarged two rock trench drains along western boundary of Area 1.

The Change / Modification log and copies of the modifications are found in Appendix E.

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Section 4

Chronology of Events

This section presents a tabular summary that lists the major events for the Site OU1 RA project and associated dates of these events beginning with the ROD signature. See Section 2.1 for a summary of all investigation and removal activities that occurred prior to the ROD.

Date	Event
May 10, 2010	ROD for OU1 Signed
August, 2011	Remedial Design Complete
August 9, 2011	Mobilization and Site Preparation
August 16, 2011	Start of Excavation
March 13, 2012	Area 2 River Bank Revetment Complete
April 26, 2012	Area 3 Remedial Excavation Complete
June 15, 2012	Area 1 Remedial Excavation Complete
June 29, 2012	Area 1 Remedial Restoration Complete
June 29, 2012	Area 3 Remedial Restoration Complete
August 8, 2012	Joint Site Inspection
August 10, 2012	Area 2 Boat Ramp Restoration Complete
August 10, 2012	Final Restoration Inspection
October 3, 2012	Construction As-Built Submitted to City
TBD	O&M Plan Approval
Summer 2013	OU1 Post-Construction Risk Assessment Sampling
TBD (estimated Summer 2014)	First Annual Site Inspection
TBD	Institutional Control Implementation and Assurance Plan (ICIAP) Approval
TBD	OU1 Post-Construction Risk Assessment Report
TBD	Site-wide Risk Assessment Report
TBD	O&F Determination/Start of O&M Phase
TBD	First Annual O&M Site Inspection
TBD	First Annual O&M Report
TBD	First Five-Year Review

TBD – to be determined

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Section 5

Performance Standards and Construction Quality Control

This section describes the overall performance of the removal and containment remedy in terms of comparison to the OU1 site remedial action objectives. In addition, this section discusses the remedy performance monitoring strategy and QA/QC procedures followed.

5.1 Comparison to RAOs

The RAOs for the OU1 site are presented in Section 2.2.1. This section presents a brief summary of the current conditions as compared to the RAOs. Upon completion of the OU1 post-construction risk assessment, the EPA will verify that all RAOs are still met.

The confirmation soil sample analytical results from the removal activities indicate that the majority of the site's exposed finish subgrade is at concentrations <1% LA. Figure 3-1 shows the concentrations and depths of LA remaining across all of OU1. In the areas with residual contamination, the in-place cover is sufficient to break the exposure pathway. This accomplishes the RAO of mitigating the potential for inhalation exposure to asbestos fibers that would result in risks that exceed the target cancer risk range of 1E-06 to 1E-04. However, the EPA will conduct a post-construction risk assessment at OU1.

Restoration activities at OU1 included placement of cover and seeding or re-vegetation, and in some cases, placement of rip-rap and/or erosion control matting. These measures address the second RAO to control erosion of contaminated soil by wind and water from source locations to prevent the spread of contamination to unimpacted locations. Section 7 provides a brief description of OU1 O&M measures in place to ensure that the Selected Remedy remains protective of human health and the environment.

The final RAO to implement controls to prevent uses of the site that could pose unacceptable risks to human health or the environment or compromise the remedy will be addressed by the implementation of ICs for OU1. An Institutional Control Implementation and Assurance Plan (ICIAP) will be developed to address implementation and periodic review of the specific IC instruments for OU1. This is discussed further in Section 6.3.

5.2 Remedy Performance Monitoring Strategy

The ROD included monitoring as a component of the Selected Remedy to ensure long-term effectiveness and permanence. The remedy performance monitoring strategy includes inspections and reviews (EPA 2011c). During the site inspections, current site conditions — including drainage, signs of erosion and integrity of the cover — will be observed and documented. Monitoring of the ICs will include evaluations of the effectiveness of the ICs implemented by the ICIAP. Section 7 provides a brief description of OU1 O&M measures in place to ensure that the Selected Remedy remains protective of human health and the environment.

Five-year site reviews will be conducted by the EPA (as required by the National Oil and Hazardous Substances Pollution Contingency Plan due to contamination left-in-place) to ensure that the remedy as implemented and maintained continues to be protective of human health and the environment.

5.3 Construction QA/QC

During RA construction, TQA personnel were tasked with documenting if construction activities were performed in accordance with the RAWP and design drawings. TQA personnel recorded observations on a daily basis in the QARs. Deviations from the guidance documents were recorded in the Change / Modification log discussed in Section 3.6. Upon completion of construction activities, the restoration final inspection (RFI) was conducted. TQA and RC staff walked through the site on August 10, 2012 to determine if the scope had been completed in a satisfactory manner. This inspection, which did not identify any deficiencies, was noted in the QAR provided in Appendix D.

A joint site inspection (JSI) by the EPA, DEQ, RC, and TQA representatives also occurred on August 8, 2012. A detailed account of these QA/QC assessments is presented in Section 6.1.

5.4 QA/QC Procedures

QA/QC measures for this remedial action included, but were not limited to, appropriate training of sampling and inspection personnel, the collection of field QC samples (such as duplicate soil samples and field blanks), implementation of a laboratory QA program (implemented for the entire Site), review of this report by an approved CDM Smith QA staff member, and audits to evaluate adherence to project requirements and procedures outlined in relevant site guidance documents.

Section 6

Final Inspections and Certifications

6.1 Remedial Action Contract Inspections

This section provides a description of all contract inspections, including field audits, the RFI and the JSI.

6.1.1 Field Audits

Daily field audits, or follow-on inspections, were performed by the TQA. The RAWP (USACE 2010a) required that these inspections be conducted at least once per day at each work site for each phase of work. Work practices, compliance with plans and specifications, compliance with safety, and efficiency were reviewed and recorded on the daily QAR. Any deficiencies noted were immediately communicated to the task foreman for resolution.

All RA construction activities were conducted in accordance with the RAWP and design drawings. No major deficiencies were identified during the daily audits. All QARs for the remedial action are provided in Appendix B.

6.1.2 Restoration Final Inspection

The Restoration Final Inspection was conducted on August 10, 2012 following the completion of restoration activities (with the exception of hydroseeding near the boat ramps, which was not completed until August 14, 2012.) This inspection provided an opportunity for the City, RC, and TQA to meet onsite and identify any non-conformance with the work plan. In this case, no deficiencies were identified by the City, RC, or TQA. This RA was completed in accordance with the RAWP and design drawings.

6.1.3 Joint Site Inspection

Representatives from the EPA, DEQ, RC, and TQA met at the site on August 8, 2012 to conduct a JSI. The results of this inspection were reported in the OU1 JSI Memorandum (CDM Smith 2012). This type of inspection is typically conducted at the conclusion of construction at a given site and is required before an O&F determination can be made.

During the JSI, attendees observed current site conditions and reviewed previous remediation/restoration activities. Attendees agreed that construction activities were completed in accordance with the Selected Remedy outlined in the OU1 ROD, RAWP and design drawings. However, due to the current lack of toxicity data for LA, an O&F determination was not made and, as agreed by JSI attendees, will be deferred until the OU1 post-construction risk assessment sampling is completed. A copy of the JSI Memorandum is provided in Appendix F.

6.2 Health and Safety

All activities conducted at the Site are subject to conformance with the Comprehensive Site Health and Safety Plan (CHASP) (CDM Smith 2011). Included below is a brief description of significant health and safety measures implemented during the RA. For details, reference the CHASP.

During construction, water-based dust suppression was used to prevent asbestos fibers from becoming airborne. This alleviates cross-contamination concerns by preventing offsite migration of fibers. Also, dust suppression provides additional respiratory protection for laborers working within the contaminated areas. To prevent migration of fibers during transport, containerized truck beds and trailers are used.

During the RA, all personnel on site used proper personal protective equipment (PPE), as documented in the QARs. A minimum of modified level D was worn on the site at all times, including safety shoes, safety glasses, and hardhats. Personnel entering the exclusion zone wore modified level C, including safety shoes, safety glasses, disposable coveralls, hardhats, and half or full face respirators (depending on intrusiveness of activity). Personnel exiting the exclusion zone went through a thorough decontamination process in the shower trailer located in the contamination reduction zone. Additionally, the clean room of the decontamination shower trailer was regularly monitored for potential LA fiber migration, with all 12 ambient air samples ND for LA by TEM (see Appendix C).

Perimeter air samples were collected from the downwind side of excavation areas during all removal activities to monitor for offsite migration of LA. All of these air samples were ND for LA by TEM. Results of the perimeter air samples are included in Appendix C. The CHASP also requires bi-annual personal air monitoring for operators and laborers performing removal activities; however, this is a site-wide requirement that was also satisfied at other locations on the Site. For the 13 personal air monitoring samples collected for OU1 site workers during RA activities, PCM results indicate levels within OSHA permissible exposure limits (see Appendix C).

6.3 Institutional Controls

ICs are non-engineering measures designed to prevent or limit exposure to hazardous substances left in place at a site, or assure effectiveness of the chosen remedy. ICs currently in-place at OU1 include:

1. One Call Locate Center – Any excavation requires a call to Montana's One-Call underground facility location service (U-Dig) for Lincoln County to identify the potential for buried facilities. For an excavation within the Superfund Site boundary, a call to U-Dig also prompts the Environmental Resource Specialist (ERS) program to identify the potential for residual asbestos contamination on the property.
2. Permit - Any excavation within the MDT right of way requires a permit from MDT. That permit includes information about the potential to encounter asbestos contaminated soil.

The EPA is also evaluating further proprietary/legal controls for each portion of the OU. All final ICs for OU1 will be compiled in the ICIAP.

Once established, the ICs will be evaluated and updated on an annual basis by DEQ. DEQ will conduct this work under the Cooperative Agreement, if amended, and following entry into the O&M period. The evaluation will assess whether the selected IC instruments remain in place and whether the ICs are enforced such that they meet the stated objectives and performance goals and provide protection

required by the response. Five-year site reviews performed by the EPA will also periodically evaluate the effectiveness of the ICs as they are implemented and maintained.

The following are the IC categories. For more information on these ICs, refer to the ICIAP (EPA 2012a). The ICIAP identifies the specific IC instruments implemented for the Selected Remedy.

- **Proprietary Controls** - Proprietary controls have their basis in real property law and generally create legal property interests (EPA 2000a). Potential IC instruments considered for this remedial action in the OU1 ROD include an environmental covenant, easement, or deed notice.
- **Governmental Controls** – Government controls impose restrictions on land use or resource use, using the authority of a government entity (EPA 2000a). All future land use is anticipated to be residential and/or commercial.
- **Informational Devices** – Informational devices could provide information or notification to local communities that residual or contained contamination remains on site (EPA 2000a). The EPA anticipates that an important component of the informational devices will be an agreement with the utility-locate service, U-Dig, to add areas of subsurface contamination to their database of underground hazards.
- **Enforcement and Permit Tools** – Enforcement and permit tools are legal tools, such as administrative orders, permits, Federal Facility Agreements (FFAs) and Consent Decrees (CDs), that limit certain site activities or require the performance of specific activities (EPA 2000a). The establishment of enforcement and permit tools is not anticipated at the time of the development of this report.

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Section 7

Operation and Maintenance Activities

This section summarizes the general activities for post-construction operation and maintenance. This section also summarizes re-evaluations that will ensure that the Selected Remedy remains protective taking into account future risk assessment data. Detailed information regarding operation and maintenance for the OU1 site is provided in the Draft O&M Plan (EPA 2013).

7.1 Long-Term O&M Activities

Long-term O&M will be performed to maintain the integrity of the remedy components, including protective covers and ICs, after OU1 is determined to be operational and functional. The O&M Plan will define the responsibilities for long-term O&M of the remedy and repairs. The following subsections summarize what will be considered routine O&M activities.

7.1.1 Routine Site Inspections

Routine non-intrusive visual site inspections will be conducted to ensure integrity of the covers and backfilled areas. OU1 site inspections are assumed to be performed at least annually as well as concurrently with the five-year site review.

7.1.2 Cover Maintenance

The main concern during the O&M period will be future encounters with contaminated soil resulting from damage to the remedy. Damage to covers and backfilled areas identified during routine OU1 site inspections will be repaired to eliminate exposure of underlying contamination. Issues that may arise with the covers during long-term O&M and contingency plans for such occurrences are detailed in the Draft O&M Plan.

7.1.3 U-Dig Review

U-Dig call data will be evaluated for accuracy and validity as calls are received to ensure protectiveness. Evaluation of U-Dig calls is discussed in the OU1 O&M Plan.

7.1.4 IC Evaluation and Updates

ICs will be evaluated on at least an annual basis and updated if necessary to ensure protectiveness. Evaluation and updates for different types of ICs are discussed in the OU1 O&M Plan.

7.1.5 Reporting

Routine reports summarizing O&M activities will be prepared by the DEQ and submitted to the EPA on an annual basis. Routine reporting also involves regular review and updates as necessary to the O&M Health and Safety Plan (HASP). Reporting requirements are discussed in the OU1 O&M Plan.

7.2 Five-Year Reviews

Five-year site reviews of the OU1 site will be performed since contaminated subsurface soil is left in place below the protective covers and backfilled excavations, preventing unrestricted use of the OU1 site. The EPA is responsible for performing and funding the five-year reviews as long as they are required.

The five-year review process consists of six components: 1) community involvement and notification; 2) document review; 3) data review and analysis; 4) site inspection; 5) interviews; and 6) protectiveness determination (EPA 2001), (EPA 2003).

- Community involvement activities will notify the public that the five-year review will be conducted, that it has been completed, and that results are available for review at the EPA Information Center in Libby.
- Document review involves an evaluation of all relevant documents and data to obtain information to assess the performance of the remedial action.
- Site inspections will be conducted to gather information about the site's current status and to visually confirm and document the conditions of the remedy, the site and the surrounding area.
- Interviews may be conducted as necessary with the site manager, site personnel and people who live or work near the site to gather additional information about the site's status or to identify remedy issues.
- The protectiveness determination should include a technical assessment of the following questions:
 - Is the remedy functioning as intended by the decision documents?
 - Are the exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy selection still valid?
 - Has any other information come to light that could call into question the protectiveness of the remedy?

7.3 OU1 Post-Construction Risk Assessment Re-Evaluation

When the OU1 post-construction risk assessment is complete, the EPA will re-evaluate the remedy to confirm its effectiveness. If unacceptable exposures are identified, the EPA will take action as necessary to ensure that the soil-to-air pathway is broken. Actions may include additional excavation (to a maximum of 3 feet), improving covers, and/or strengthening ICs. If contamination continues below 3 feet, a visible barrier marking the extent of excavation will be placed before backfilling.

Section 8

Summary of Project Costs

Consistent with EPA guidance (EPA 2000a), a summary of project costs is provided within this RA report. According to the guidance, the total project costs are to be compared to the estimates presented within the ROD. It should be noted that this section provides project costs for the 2011/2012 remedial action only. The costs associated with previous removal actions are not considered because those removal actions were conducted under Comprehensive Environmental Response, Compensation, and Liability Act removal authority rather than remedial authority.

All capital costs in the comparison table below are reported in the same dollar basis as the actual project costs (i.e., 2012 dollars). The capital costs projected in the ROD were escalated to 2012 dollars using the USACE Civil Works Construction Cost Index System (USACE 2012). Because O&M costs have not been incurred and will not be compared, the ROD projections for annual O&M costs and periodic costs remain in 2010 dollars. Appendix A provides a summary of actual capital costs associated with construction activities (earthwork).

	Projections in ROD	Actual Costs
Capital Cost (ICs and Engineered Controls)	\$61,000	Not yet incurred
Capital Cost (Earthwork)*	\$3,467,000	\$2,813,190
Annual O&M Cost and Periodic Cost (Five-Year Reviews)	\$955,000	Not yet incurred

*ROD projections escalated to 2012 base year

The incurred total capital costs associated with the RA were less than projected in the ROD. In large part the reduction in cost is due to cost savings in technical support which included remedial design, project management, and construction management. The cost estimate for the preferred alternative assumed approximately \$880,000 (escalated to 2012 base year) for technical support. The technical support costs for the preferred alternative were based on EPA guidance for estimating indirect costs (EPA 2000b) using percentages applied to the total estimated construction costs. As shown in Appendix A, only \$383,025 was spent on technical support. However, the actual technical support costs do not include costs incurred by the EPA and USACE.

Below is a summary of probable costs of O&M. The actual cost to the stakeholders (i.e. DEQ and/or EPA) may be lower depending on whether the State can find cost efficiencies in implementing the O&M at OU1 of the Libby Asbestos site. Costs related to implementation of ICs are excluded from the O&M cost estimate.

The detailed cost estimate (cost worksheets, cost summary, and present value analysis) is presented in Appendix B of the OU1 O&M Plan (EPA 2013). The following table presents the summary of the O&M cost estimates.

Table 8-1 Summary of Probable Operations and Maintenance Cost Incurred by City of Libby

O&M Component	Cost Type	Description	Cost
Pavement Maintenance (Minor Repairs)	Periodic O&M Cost	Includes general maintenance every five years for filling pavement cracks.	\$14,000
Pavement Maintenance (Resurfacing)	Periodic O&M Cost	Includes scarifying, resurfacing, and disposal of asphalt every five years.	\$198,000
Pavement Maintenance (Replacement)	Periodic O&M Cost	Includes complete removal, replacement, and disposal of asphalt and base course every twenty years.	\$437,000
Total Probable Cost Over 30 Years			\$1,511,000

Note:

1. Detailed costs and backup are presented in Appendix B of the OU1 O&M Plan (EPA 2013).
2. Costs are rounded to the nearest \$1,000.
3. Costs based on 2013 prices.
4. Costs presented are expected to have accuracy between -30% to +50% of actual cost, based on the scope presented.

Table 8-2 Summary of Probable Operations and Maintenance Cost Incurred

O&M Component	Cost Type	Description	Cost
Routine Site Inspection	Annual O&M Cost	Includes annual site inspection to inspect the integrity of all the components of the remedy put in-place. It is assumed that annual O&M cost would be incurred annually.	\$2,000
Evaluating and Updating Institutional Controls	Annual O&M Cost	The cost includes annual evaluation and update of the implemented institutional controls at the OU1 site.	\$2,000
Cover Maintenance (Minor Breaches)	Annual O&M Cost	Includes annual cost for O&M of the OU1 remedy. Breaches that can be repaired without additional excavation of contaminated soils are considered as Minor Breaches.	\$15,000
Cover Maintenance (Major Breaches)	Periodic O&M Cost	Includes periodic costs for repairing major breaches to the protective cover. It may include additional excavation of contaminated materials to secure the disturbed areas.	\$21,000
Total Probable Cost Over 30 Years			\$696,000

Note:

1. Detailed costs and backup are presented in Appendix B of the OU1 O&M Plan (EPA 2013).
2. Costs are rounded to the nearest \$1,000.
3. Costs based on 2013 prices.
4. Costs presented are expected to have accuracy between -30% to +50% of actual cost, based on the scope presented.

Table 8-3 Summary of Probable Review Costs Incurred by EPA

O&M Component	Cost Type	Description	Cost
Five-Year Site Review	Periodic Cost	Includes costs for site visit and a five-year site review report and also includes setting up a community meeting to inform the local community about the status of the OU1 site. It is assumed that the five-year review cycle would start during year 2015.	\$50,000
Total Probable Cost Over 30 Years			\$300,000

Note:

1. Detailed costs and backup are presented in Appendix B of the OU1 O&M Plan (EPA 2013).
2. Cost is rounded to the nearest \$1,000.
3. Costs based on 2013 prices.

4. Costs presented are expected to have an accuracy between -30% to +50% of actual costs, based on the scope presented.

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Section 9

Observations and Lessons Learned

This section provides observations and lessons learned from implementation of the Libby OU1 RA construction activities including successes, problems encountered, and resolutions.

9.1 Successes

OU1 posed a unique relationship with the City, relative to the other OUs, where the City retained a designer to develop and propose the park finish grade elevations and features. The USEPA established removal and restoration limits based on the City's proposed final grade elevation. This approach required significant City involvement and participation in finalizing plans prior to and managing modifications during construction. A City council representative was delegated as the point of contact and responsible for conveying project issues to their designer. The request for information, design modifications, and material submittal approval processes went smoothly with no impact to construction schedule.

The greater majority of other OU protocols was to uniformly remove contaminated soil to a specified depth below original grade and restored in kind. Because OU1 proposed finish grade elevations varied across the site the depth of excavations likewise varied accordingly. Subsequently, a staked grid of 25-foot on-center was surveyed and each point stake was labeled with depth of excavation. The excavator operators interpolated between stakes to establish proposed topography. The system proved effective to achieve proposed depth of excavation and mitigate unintended over-excavation while achieving the minimum 18 inches of imported soil cover.

Due to the OU1 areal expanse, over 200 confirmation soil samples were anticipated. The USEPA requested laboratory analysis on a 24-hour turn-around basis to accommodate the fast-track removal process. When analytical results exceeded 1% LA, the excavation crews were able to efficiently and effectively return to those discrete polygon removal areas to over-excavate without cross-contaminating cleared polygons. This protocol required a number of individuals and systems to closely communicate and coordinate.

9.2 Problems Encountered and Resolutions

The EPA was evaluating and adjusting restoration materials sections to maximize cost efficiency. Consequently, at other OUs, the top soil section was revised from 6 inches to 4 inches. However, during OU1 embankment restoration, it was determined that the 4-inch section was insufficient for grass seeds to substantially establish. Therefore, 6 inches of top soil was restored to the OU1 embankments.

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Section 10

Libby OU1 Contact Information

Contact information for the key OU1 RA project personnel is presented below.

Name	Title	Organization	Contact Information
Dania Zinner	Remedial Project Manager	EPA Region VIII	1595 Wynkoop Street, 8EPR-SR Denver, CO 80202 (303) 312-6552 zinner.dania@epamail.epa.gov
Carolyn Rutland, Ph.D.	Project Manager	DEQ	P.O. Box 200901 Helena, MT 59620 (406) 841-5036 crutland@mt.gov
Mary Darling, PMP	Project Manager	USACE	Building 525, Room 324 P.O. Box 13287 Offutt AFB, NE 68113 (402) 995-2116 mary.n.darling@usace.army.mil
Jason Lynch	Project Manager	PRI-ER	60 Port Boulevard Libby, MT 59923 (303) 503-4672 jlynch@priworld.com
Thomas Cook, PMP	Project Manager	CDM Smith	60 Port Boulevard, Suite 201 Libby, MT 59923 (406) 293-8595 cookte@cdmsmith.com
Dominic Pisciotta	ERS Manager	CDM Smith	60 Port Boulevard, Suite 201 Libby, MT 59923 (406) 291-5335 picsiottadm@cdmsmith.com

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Section 11

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Figures



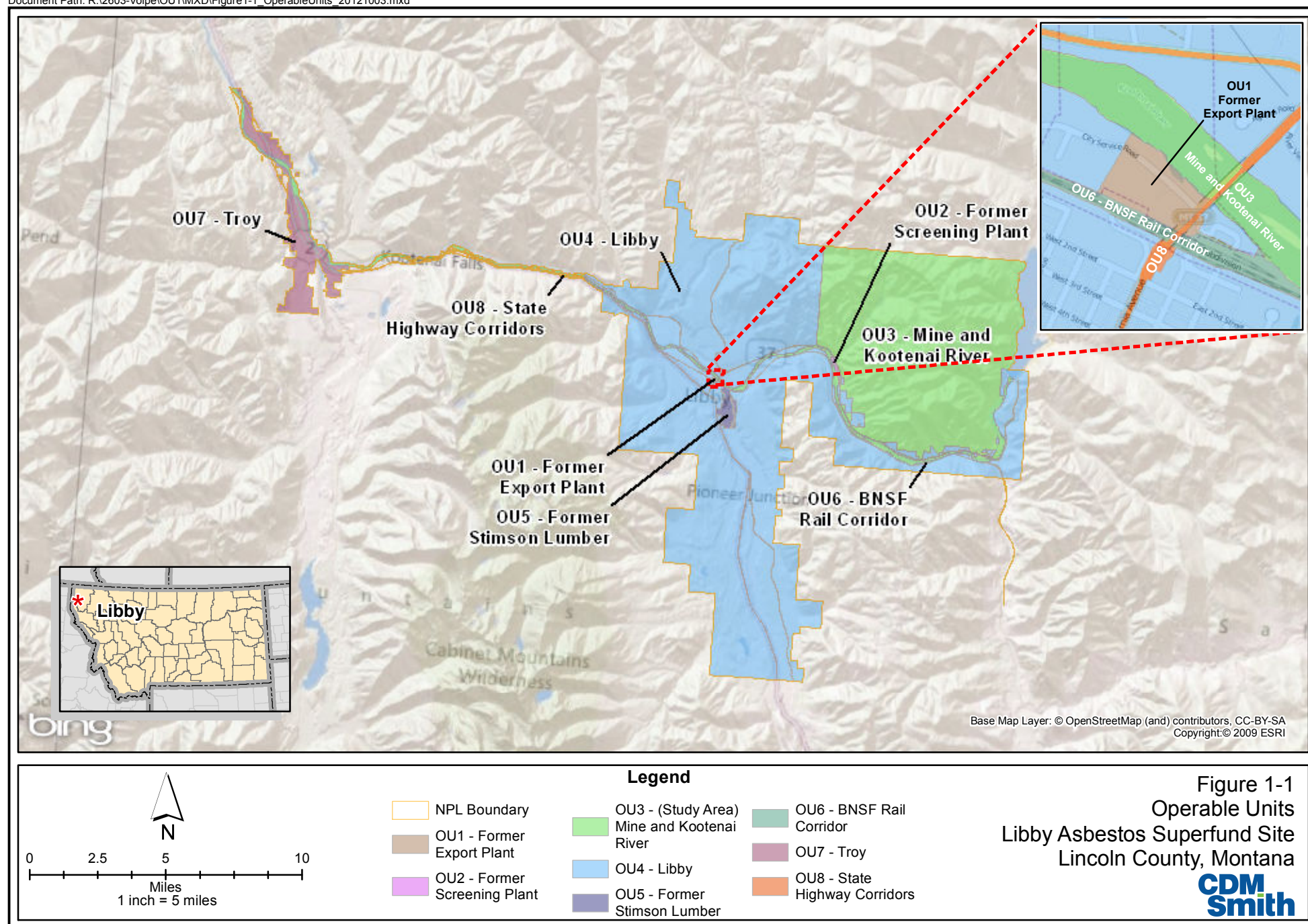
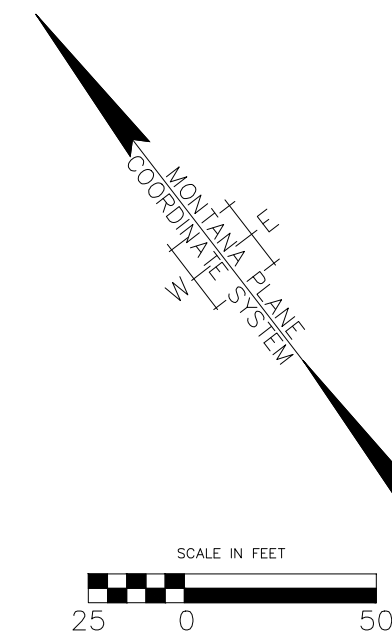
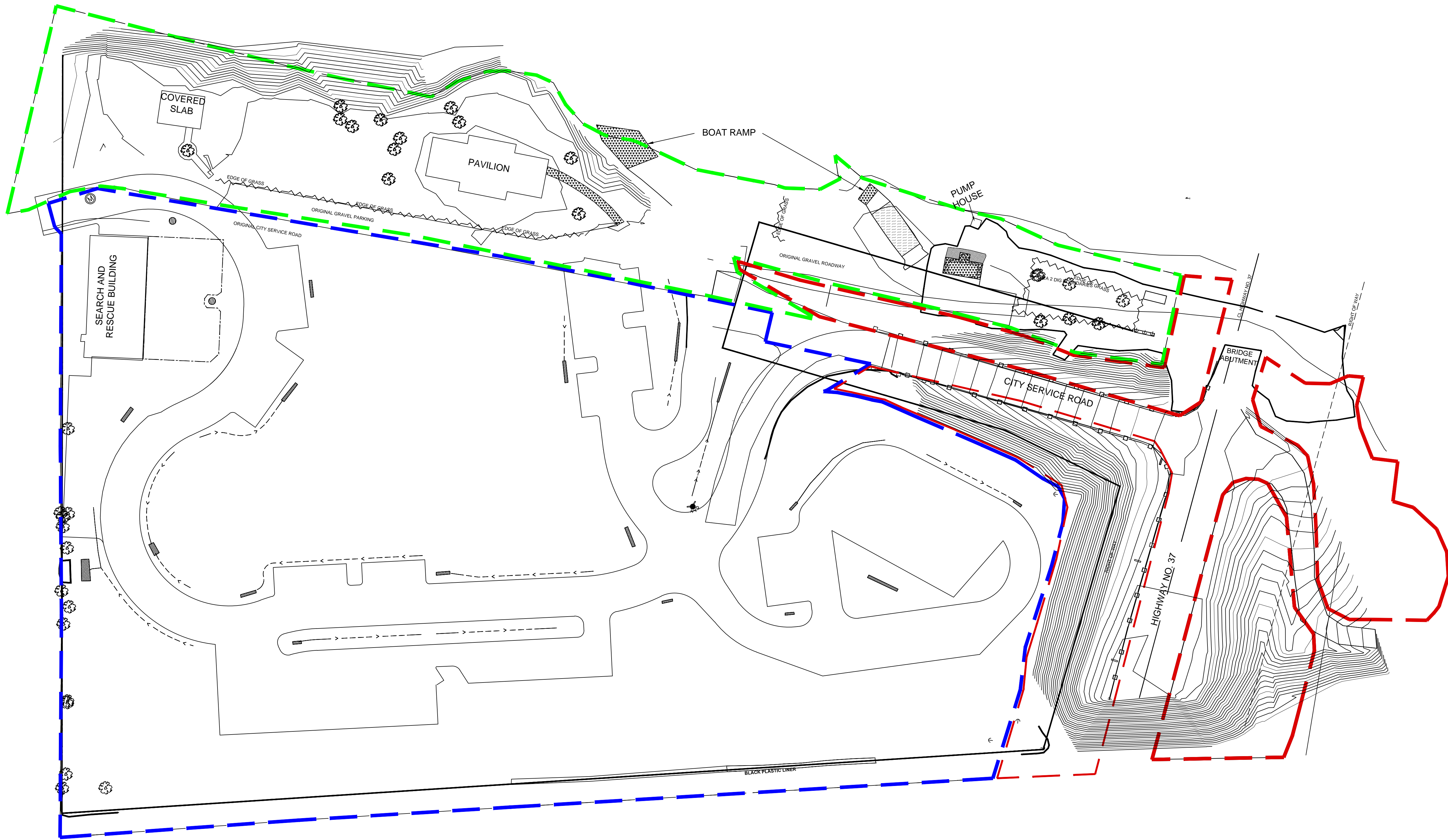
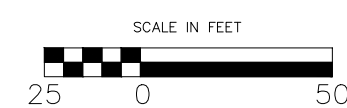


Figure 1-1
Operable Units
Libby Asbestos Superfund Site
Lincoln County, Montana
CDM Smith



LEGEND

- AREA 1 - FORMER EXPORT PLANT
- AREA 2 - RIVERFRONT PARK
- AREA 3 - EMBANKMENTS



OU1 SITE MAP
FIGURE 1-2
LIBBY ASBESTOS SUPER FUND SITE
LINCOLN COUNTY, MONTANA



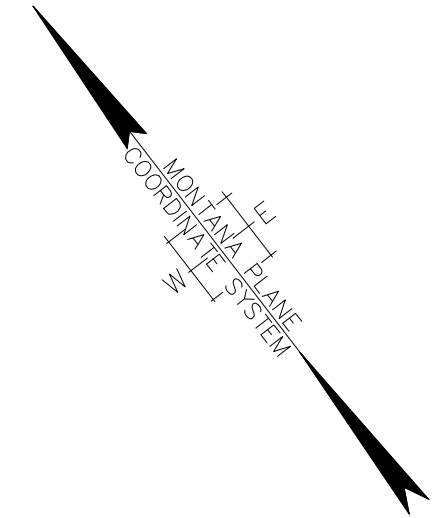
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- AREA 1 - FORMER EXPORT PLANT
- AREA 2 - RIVERFRONT PARK
- AREA 3 - EMBANKMENTS
- NON DETECT
- < 1% LA
- > 1% LA
- L LOW VISIBLE VERMICULITE
- M MODERATE VISIBLE VERMICULITE
- H HIGH VISIBLE VERMICULITE

LOCATION OF RESIDUAL CONTAMINATION AT OU1 OVERVIEW
 FIGURE 3-1
 LIBBY ASBESTOS SUPER FUND SITE
 LINCOLN COUNTY, MONTANA



LOCATION OF RESIDUAL CONTAMINATION AT OU1 AREA 1
 FIGURE 3-2
 LIBBY ASBESTOS SUPER FUND SITE
 LINCOLN COUNTY, MONTANA



LEGEND

- AREA 3 - EMBANKMENTS
- NON DETECT
- < 1% LA
- > 1% LA
- L LOW VISIBLE VERMICULITE
- M MODERATE VISIBLE VERMICULITE
- H HIGH VISIBLE VERMICULITE

SCALE IN FEET
15 0 30

LOCATION OF RESIDUAL CONTAMINATION AT OU1 AREA 3
FIGURE 3-4
LIBBY ASBESTOS SUPER FUND SITE
LINCOLN COUNTY, MONTANA

Appendix A

Cost Summary

Summary of Actual Capital Costs Associated with Construction Activities

The table below presents additional detail related to actual capital cost associated with construction activities completed during the 2011/2012 remedial action. The sum of these costs is reported as Capital Cost (Earthwork) in Section 8.

Construction costs were provided by the removal contractor, Project Resources, Inc.- Environmental Restoration, Joint Venture. These costs include, but are not limited to:

- construction management
- labor, equipment, and materials for construction activities

The support cost is an estimate provided by the third-party quality assurance contractor, CDM Federal Programs Corporation. Due to Libby site-wide financial tracking requirements, this cost is provided as an estimate and includes, but is not limited to:

- remedial design
- health and safety monitoring
- third party quality assurance
- construction-related sample collection
- sample coordination

Summary of Actual Capital Costs Associated with Construction Activities

<i>Construction</i>	
Labor	\$680,313
Equipment	\$229,921
Other Field Costs	\$1,519,932
<i>Support</i>	
Technical Support	\$383,025
Total Capital Cost (earthwork)	\$2,813,190

As discussed in Section 8 of this RA Report, the incurred total capital costs associated with the RA were less than projected in the ROD. In large part the reduction in cost is due to cost savings in technical support which included remedial design, project management, and construction management. The cost estimate for the preferred alternative assumed approximately \$880,000 (escalated to 2012 base year) for technical support. The technical support costs for the preferred alternative were based on EPA guidance for estimating indirect costs (EPA 2000c) using percentages applied to the total estimated construction costs. As shown above, only \$383,025 was spent on technical support. However, the actual technical support costs do not include costs incurred by the EPA and USACE.

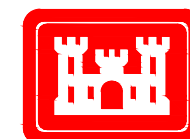
Appendix B

OU1 As-Builts

OU1 - RESTORATION
LIBBY ASBESTOS PROJECT
USACE CONTRACT NO. W9128F-11-D-0023
LIBBY, MT
September 2012



US EPA
Region VIII
Denver, Colorado



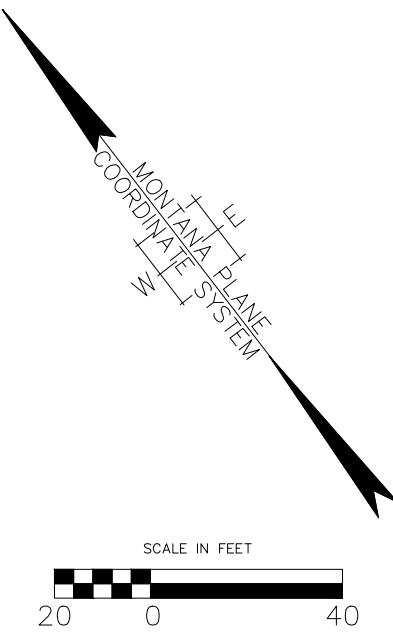
US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
RAPID RESPONSE PROGRAM



PICTURE FROM RESTORATION (CDM SMITH) 06/29/12

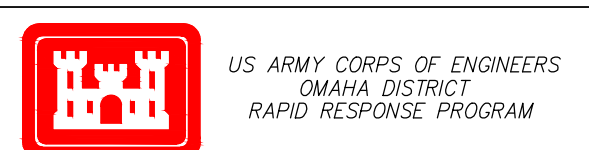
LIST OF DRAWINGS

	<u>SHEET</u>	<u>TITLE</u>
D1		COVER SHEET - OU1
D2		RESTORATION AS-BUILT FOR OU1 - OVERVIEW
D3		RESTORATION AS-BUILT FOR OU1 - AREA 1
D4		RESTORATION AS-BUILT FOR OU1 - AREA 2
D5		RESTORATION AS-BUILT FOR OU1 - AREA 3
D6		RESTORATION AS-BUILT FOR OU1 - DETAILS
D7		RESTORATION AS-BUILT FOR OU1 - SPOT ELEVATIONS
D8		RESTORATION AS-BUILT FOR OU1 - MODIFICATION LOG



LEGEND

- | | | | |
|--|----------------------------------|--|-------------------------------|
| | EXISTING CONCRETE | | DAVIS CONTROL POINT |
| | NEW CONCRETE | | COMPUTED BOUNDARY |
| | DRAIN ROCK TRENCH | | LOCATIONS PER C.O.S. 2332 LCR |
| | ROCK TRENCH GRAVEL | | MISCELLANEOUS TREES |
| | RIP RAP | | UTILITY POLES |
| | GRAVEL ROAD | | CHAIN LINK FENCE |
| | EROSION MAT | | LIGHT POST |
| | ARMOR FLEX | | RAIL ROAD TIE POSTS |
| | HYDROSEED KOOTENAI USFS MIX | | WATER MAIN |
| | HYDROSEED PLAYGROUND MIX | | MONITOR WELL |
| | HYDROSEED WILDFLOWER MIX | | SEWER MANHOLE |
| | AREA 1 - FORMER EXPORT PLANT | | FIRE HYDRANT |
| | AREA 2 - RIVERFRONT PARK | | IRRIGATION VALVE |
| | AREA 3 - EMBANKMENTS | | STRAW WATTLES |
| | MUNICIPAL WATER MAIN | | GUARDRAIL |
| | NEW MUNICIPAL SANITARY SEWER | | GUY WIRE |
| | NEW TELEPHONE AND CABLE LINES | | SEWER DRAIN |
| | BURIED TELEPHONE AND CABLE LINES | | UTILITY VAULT |
| | EDGE OF GRASS | | TELEPHONE PEDESTAL |
| | EDGE OF PAVEMENT | | PIPE CHASE |
| | OVERHEAD UTILITY LINE | | TIMBER BOX |
| | BURIED POWER LINE | | AREA WITH NO MARKER BARRIER |
| | FOAM INSULATION ABOVE SEWER MAIN | | HIGH DENSITY POLYETHYLENE |
| | PROPERTY BOUNDARY | | |

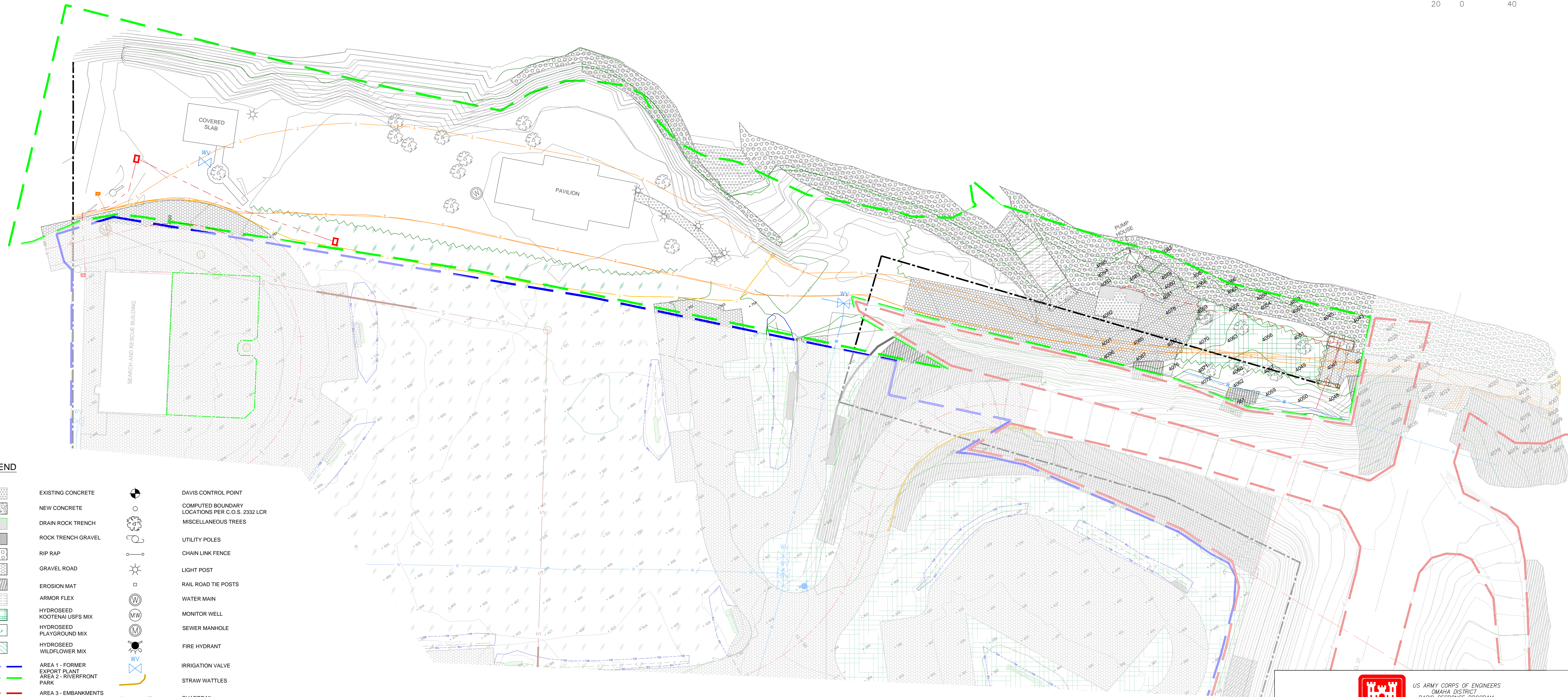
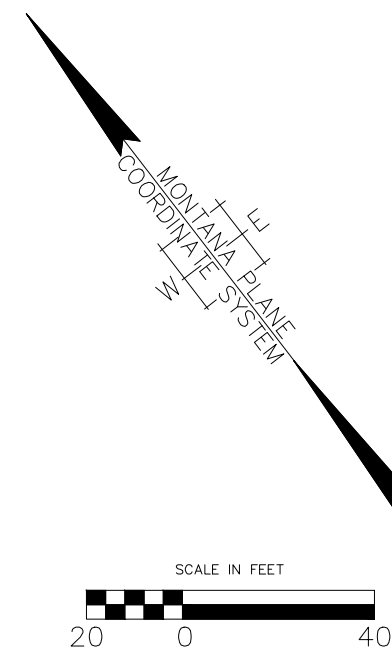


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DRAWN BY/DATE	S. MARTIN 10/02/12		
CHECKED BY/DATE	S. FELTON 10/02/12		
SUBMITTED BY / DATE:	S. FELTON 10/02/12		
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US EPA
Region VIII
Denver, Colorado

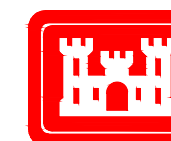
LIBBY ASBESTOS SITE
LIBBY, MONTANA

RESTORATION AS-BUILT
FOR OU1
AREA 1



LEGEND

- | | | | |
|--|----------------------------------|--|---|
| | EXISTING CONCRETE | | DAVIS CONTROL POINT |
| | NEW CONCRETE | | COMPUTED BOUNDARY LOCATIONS PER C.O.S. 2332 LCR |
| | DRAIN ROCK TRENCH | | MISCELLANEOUS TREES |
| | ROCK TRENCH GRAVEL | | UTILITY POLES |
| | RIP RAP | | CHAIN LINK FENCE |
| | GRAVEL ROAD | | LIGHT POST |
| | EROSION MAT | | RAIL ROAD TIE POSTS |
| | ARMOR FLEX | | WATER MAIN |
| | HYDROSEED KOOTENAI USFS MIX | | MONITOR WELL |
| | HYDROSEED PLAYGROUND MIX | | SEWER MANHOLE |
| | HYDROSEED WILDFLOWER MIX | | FIRE HYDRANT |
| | AREA 1 - FORMER EXPORT PLANT | | IRRIGATION VALVE |
| | AREA 2 - RIVERFRONT PARK | | STRAW WATTLES |
| | AREA 3 - EMBANKMENTS | | GUARDRAIL |
| | MUNICIPAL WATER MAIN | | GUY WIRE |
| | NEW MUNICIPAL SANITARY SEWER | | SEWER DRAIN |
| | NEW TELEPHONE AND CABLE LINES | | UTILITY VAULT |
| | BURIED TELEPHONE AND CABLE LINES | | TELEPHONE PEDESTAL |
| | EDGE OF GRASS | | PIPE CHASE |
| | EDGE OF PAVEMENT | | TIMBER BOX |
| | OVERHEAD UTILITY LINE | | AREA WITH NO MARKER BARRIER |
| | BURIED POWER LINE | | HIGH DENSITY POLYETHYLENE |
| | FOAM INSULATION ABOVE SEWER MAIN | | |
| | PROPERTY BOUNDARY | | |



US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
RAPID RESPONSE PROGRAM



US EPA
Region VIII
Denver, Colorado

LIBBY ASBESTOS SITE
LIBBY, MONTANA

RESTORATION AS-BUILT
FOR OU1
AREA 2

SURVEYED BY/DATE

E.I.D. LLC 08/27/12

DRAWN BY/DATE

S. MARTIN 10/02/12

CHECKED BY/DATE

S. FELTON 10/02/12

SUBMITTED BY / DATE

S. FELTON 10/02/12

SCALE: AS NOTED

DATE: 10/02/12

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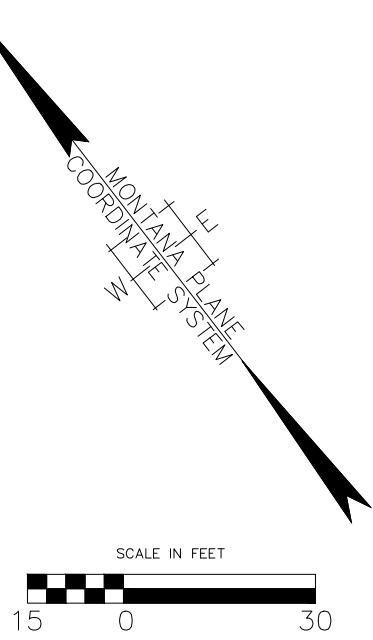
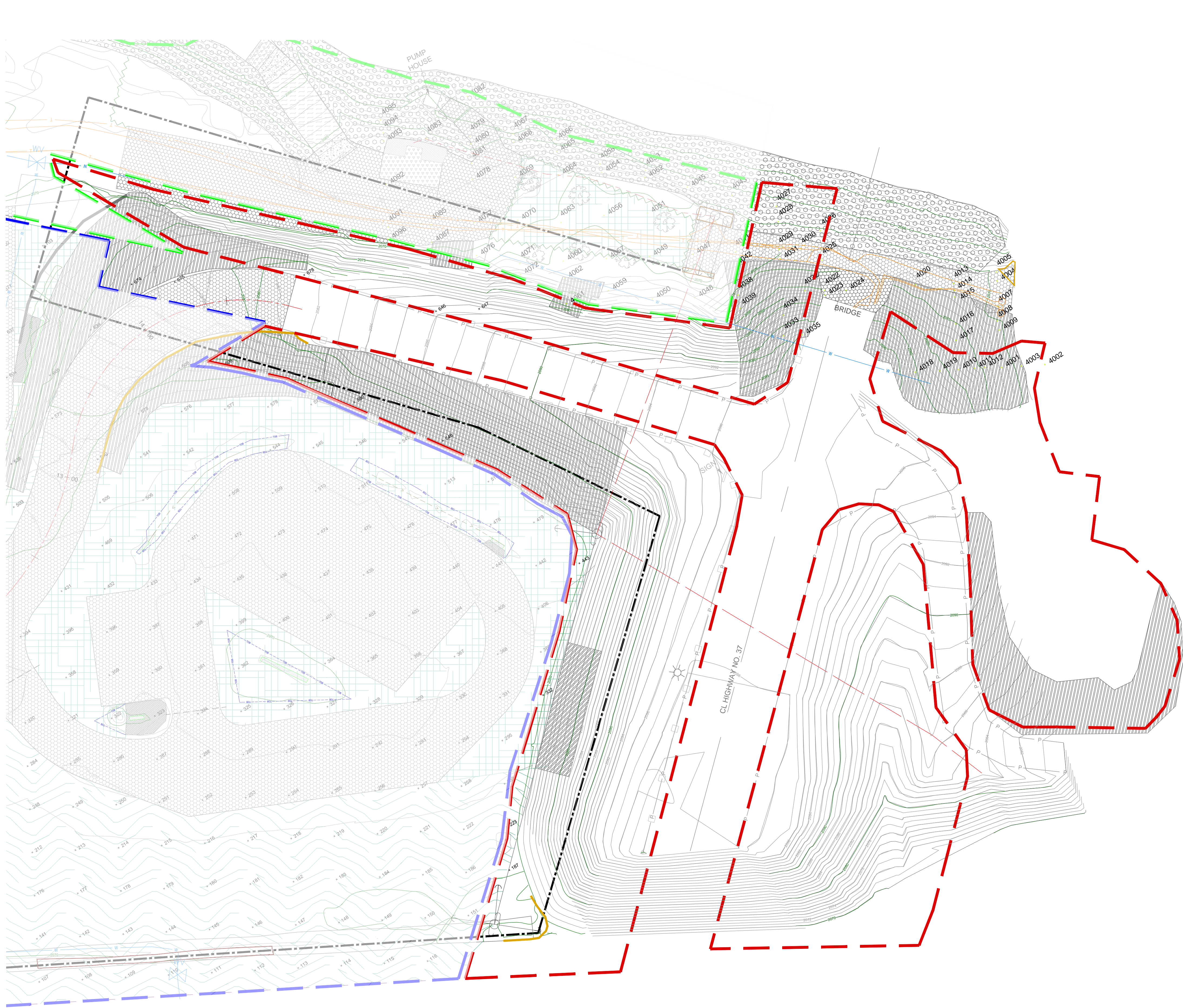
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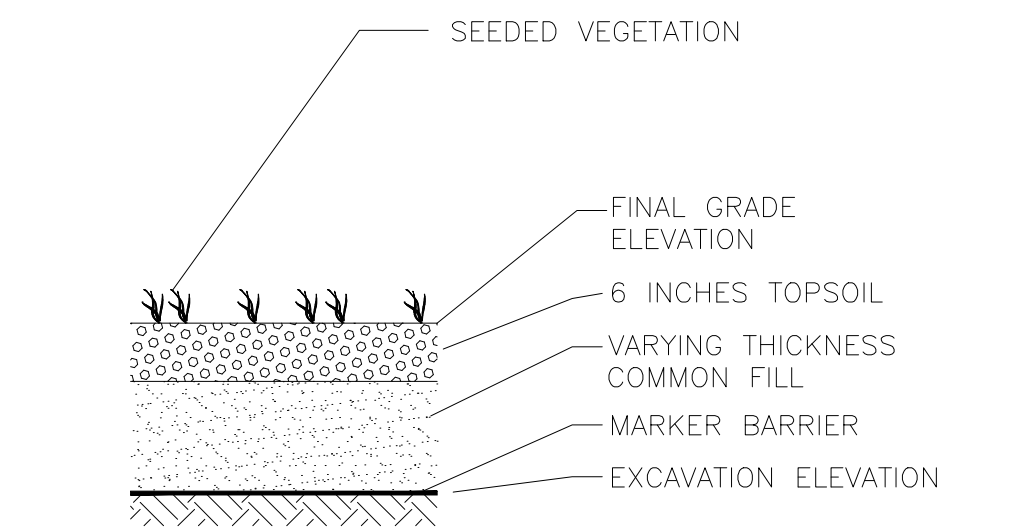
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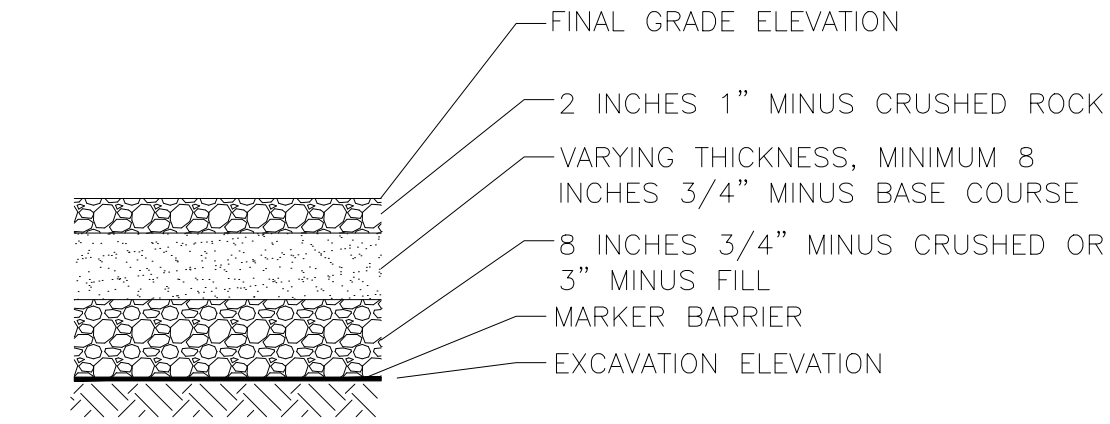


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	NEW CONCRETE		COMPUTED BOUNDARY
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	ROCK TRENCH GRAVEL		MISCELLANEOUS TREES
	RIP RAP		UTILITY POLES
	GRAVEL ROAD		CHAIN LINK FENCE
	EROSION MAT		LIGHT POST
	ARMOR FLEX		RAIL ROAD TIE POSTS
	HYDROSEED KOOTENAI USFS MIX		WATER MAIN
	HYDROSEED PLAYGROUND MIX		MONITOR WELL
	HYDROSEED WILDFLOWER MIX		SEWER MANHOLE
	AREA 1 - FORMER EXPORT PLANT		FIRE HYDRANT
	AREA 2 - RIVERFRONT PARK		IRRIGATION VALVE
	AREA 3 - EMBANKMENTS		STRAW WATTLES
	MUNICIPAL WATER MAIN		GUARDRAIL
	NEW MUNICIPAL SANITARY SEWER		GUY WIRE
	NEW TELEPHONE AND CABLE LINES		SEWER DRAIN
	BURIED TELEPHONE AND CABLE LINES		UTILITY VAULT
	EDGE OF GRASS		TELEPHONE PEDESTAL
	EDGE OF PAVEMENT		PIPE CHASE
	OVERHEAD UTILITY LINE		TIMBER BOX
	BURIED POWER LINE		AREA WITH NO MARKER BARRIER
	FOAM INSULATION ABOVE SEWER MAIN		HIGH DENSITY POLYETHYLENE
	PROPERTY BOUNDARY		

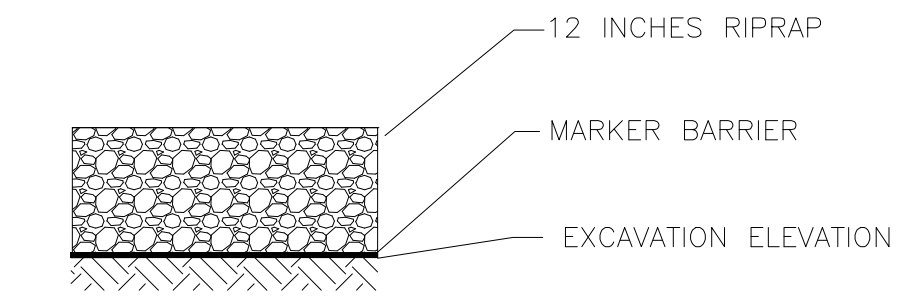
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CHECKED BY/DATE S. FELTON 10/02/12		RESTORATION AS-BUILT FOR OU1 AREA 3	
SUBMITTED BY / DATE S. FELTON 10/02/12		SCALE: AS NOTED	PLOT SCALE: 1 : 1
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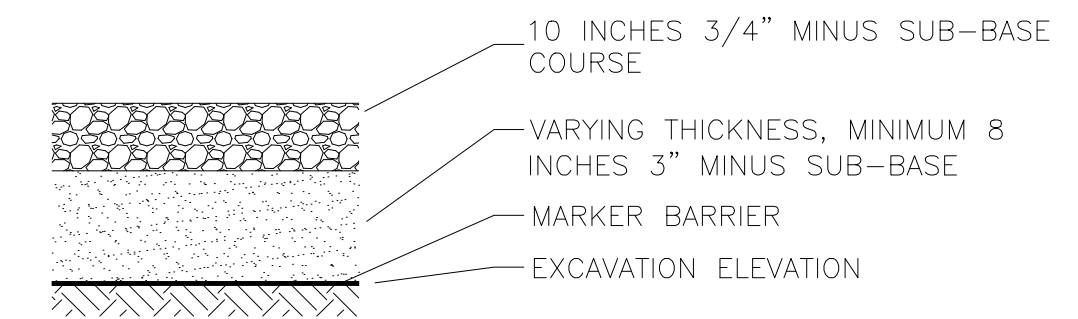
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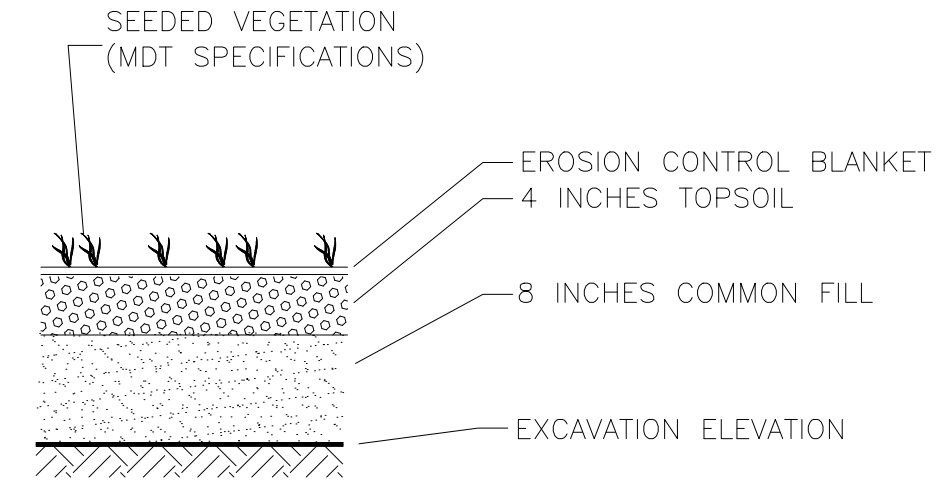
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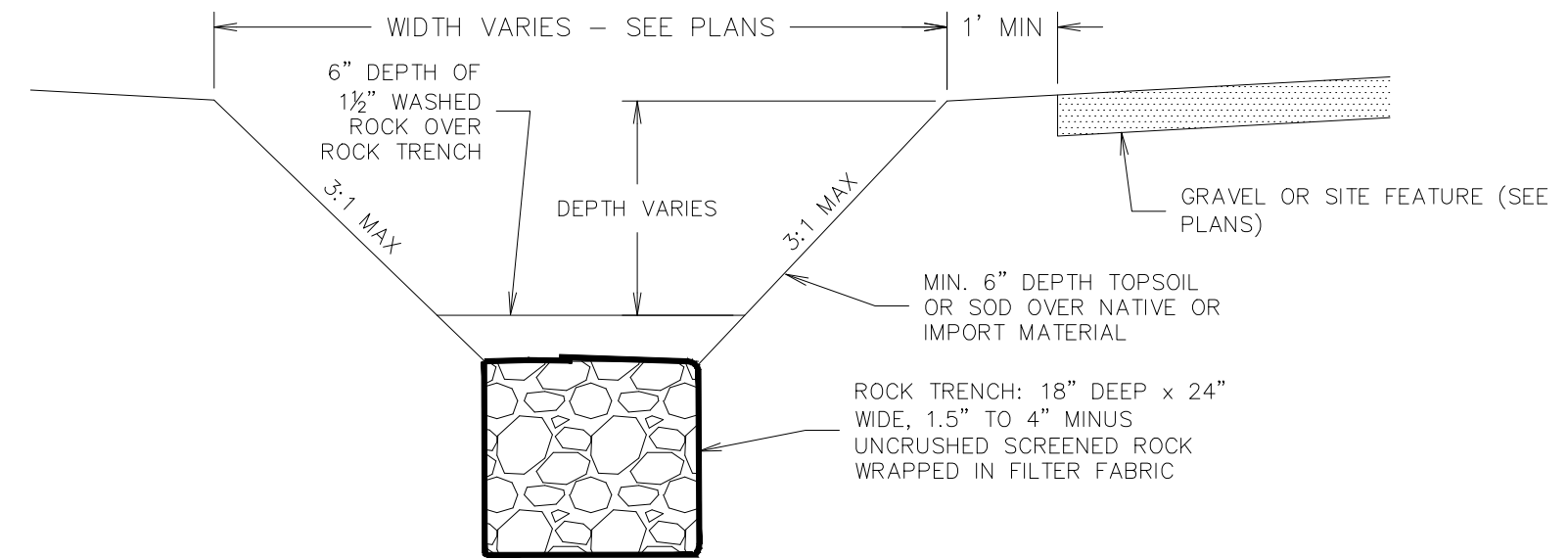
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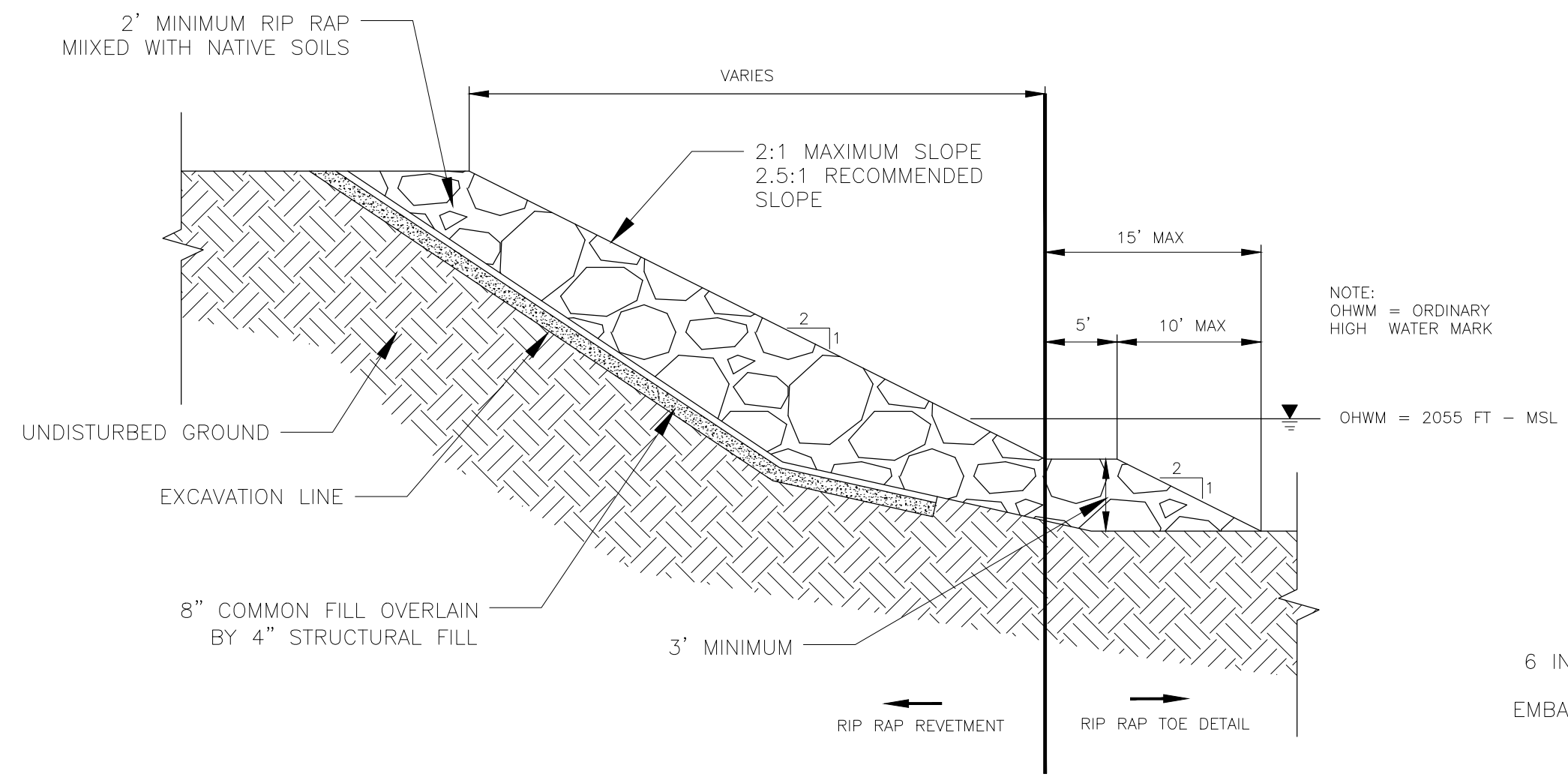
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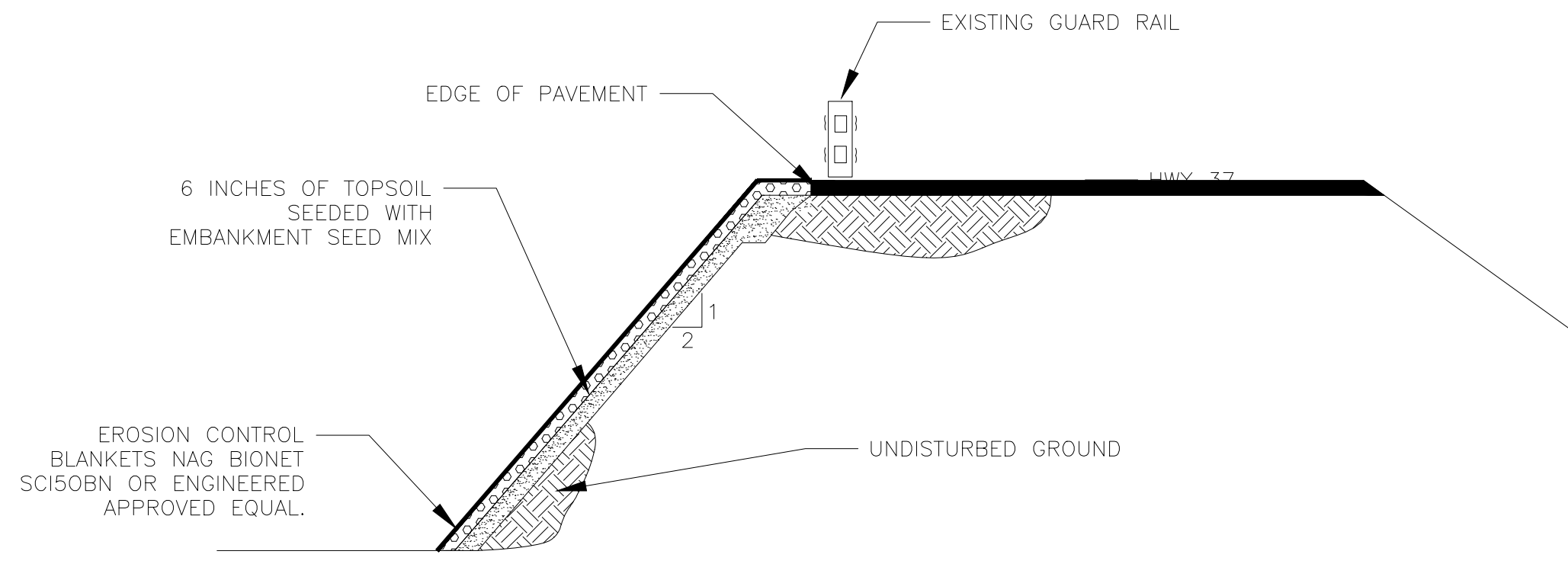
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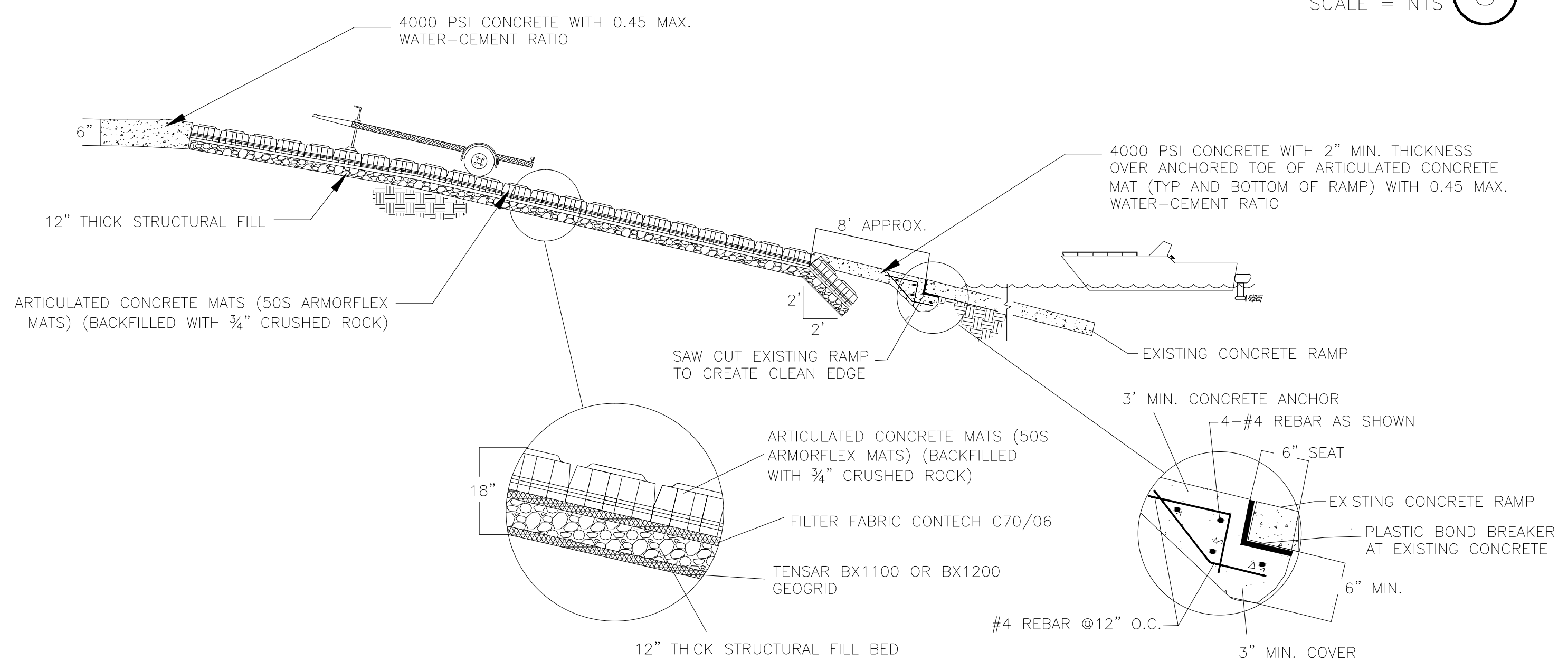
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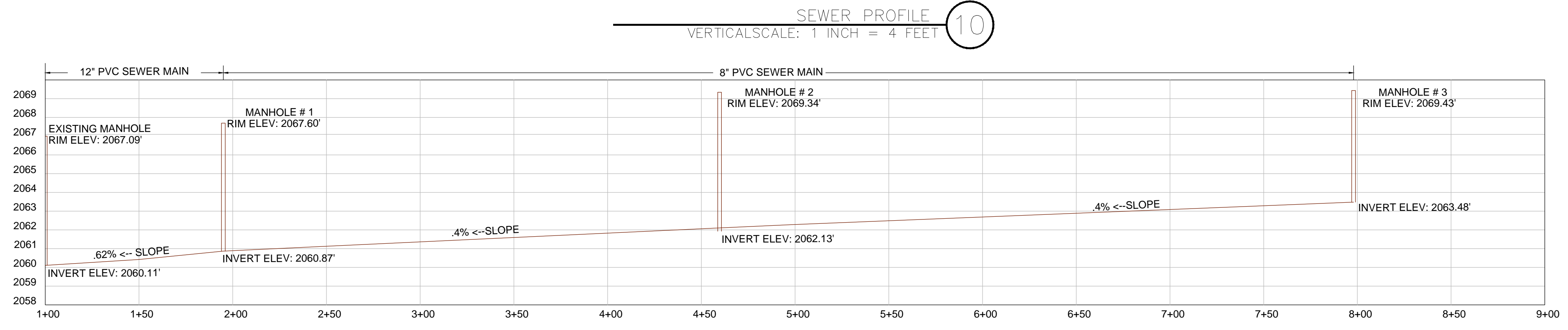
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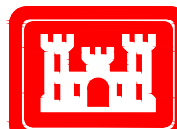



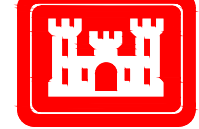
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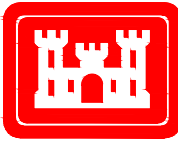



<div><div>US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM</div></div>			
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DRAWN BY/DATE S. MARTIN 10/02/12			
CHECKED BY/DATE S. FELTON 10/02/12			
SUBMITTED BY / DATE: S. FELTON 10/02/12		SCALE: AS NOTED DATE: 10/02/12 FILE LOCATION: ..\2012 PROPERTIES\ OU1\CAD\AS-BUILT.DWG	SHEET #: D6 PLOT SCALE: 1 : 1 DRAWING TYPE: AS-BUILT

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FELTON 10/02/12</div> </div> </div>	<div> <div> <div>POINT</div> <div>NORTHING</div> <div>EASTING</div> <div>DESIGN SG ELEVATION</div> <div>FINAL SG EXCAVATION</div> <div>DESIGN FG ELEVATION</div> <div>FINAL FG ELEVATION</div> </div> <table> <tr><td>81</td><td>1568580.32</td><td>499701.65</td><td>2065.50</td><td></td><td>2067.00</td><td></td></tr> <tr><td>82</td><td>1568587.82</td><td>499723.30</td><td>2065.50</td><td></td><td>2067.00</td><td></td></tr> <tr><td>83</td><td>1568601.97</td><td>499741.15</td><td>2065.48</td><td></td><td>2066.97</td><td></td></tr> <tr><td>84</td><td>1568589.47</td><td>499735.80</td><td>2065.45</td><td></td><td>2066.95</td><td></td></tr> <tr><td>85</td><td>1568576.97</td><td>499757.45</td><td>2065.42</td><td></td><td>2066.92</td><td></td></tr> <tr><td>86</td><td>1568584.47</td><td>499779.11</td><td>2065.42</td><td></td><td>2066.92</td><td></td></tr> <tr><td>87</td><td>1568551.97</td><td>499800.76</td><td>2065.42</td><td></td><td>2066.92</td><td></td></tr> 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<tr><td>133</td><td>1567968.97</td><td>500796.67</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>134</td><td>1567955.97</td><td>500818.32</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>135</td><td>1567942.97</td><td>500839.97</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>136</td><td>1567929.97</td><td>500861.62</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>137</td><td>1567916.97</td><td>500883.27</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>138</td><td>1567903.97</td><td>500904.92</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>139</td><td>1567890.97</td><td>500926.57</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>140</td><td>1567877.97</td><td>500948.22</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>141</td><td>1567864.97</td><td>500969.87</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>142</td><td>1567851.97</td><td>500991.52</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>143</td><td>1567838.97</td><td>501013.17</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>144</td><td>1567825.97</td><td>501034.82</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>145</td><td>1567812.97</td><td>501056.47</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>146</td><td>1567799.97</td><td>501078.12</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>147</td><td>1567786.97</td><td>501100.00</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>148</td><td>1567773.97</td><td>501121.65</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>149</td><td>1567760.97</td><td>501143.30</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>150</td><td>1567747.97</td><td>501164.95</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>151</td><td>1567734.97</td><td>501186.60</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>152</td><td>1567721.97</td><td>501208.25</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>153</td><td>1567708.97</td><td>501229.90</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>154</td><td>1567695.97</td><td>501251.55</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>155</td><td>1567682.97</td><td>501273.20</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>156</td><td>1567669.97</td><td>501294.85</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>157</td><td>1567656.97</td><td>501316.50</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>158</td><td>1567643.97</td><td>501338.15</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>159</td><td>1567630.97</td><td>501359.80</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>160</td><td>1567617.97</td><td>501381.45</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>161</td><td>1567604.97</td><td>501403.10</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>162</td><td>1567591.97</td><td>501424.75</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>163</td><td>1567578.97</td><td>501446.40</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>164</td><td>1567565.97</td><td>501468.05</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>165</td><td>1567552.97</td><td>501489.70</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>166</td><td>1567539.97</td><td>501511.35</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>167</td><td>1567526.97</td><td>501533.00</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>168</td><td>1567513.97</td><td>501554.65</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>169</td><td>1567500.97</td><td>501576.30</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>170</td><td>1567487.97</td><td>501597.95</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>171</td><td>1567474.97</td><td>501619.60</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>172</td><td>1567461.97</td><td>501641.25</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>173</td><td>1567448.97</td><td>501662.90</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>174</td><td>1567435.97</td><td>501684.55</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>175</td><td>1567422.97</td><td>501706.20</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>176</td><td>1567409.97</td><td>501727.85</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>177</td><td>1567396.97</td><td>501749.50</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>178</td><td>1567383.97</td><td>501771.15</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>179</td><td>1567370.97</td><td>501792.80</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>180</td><td>1567357.97</td><td>501814.45</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>181</td><td>1567344.97</td><td>501836.10</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>182</td><td>1567331.97</td><td>501857.75</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>183</td><td>1567318.97</td><td>501879.40</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>184</td><td>1567305.97</td><td>501901.05</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>185</td><td>1567292.97</td><td>501922.70</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>186</td><td>1567279.97</td><td>501944.35</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>187</td><td>1567266.97</td><td>501966.00</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>188</td><td>1567253.97</td><td>501987.65</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>189</td><td>1567240.97</td><td>502009.30</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>190</td><td>1567227.97</td><td>502030.95</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>191</td><td>1567214.97</td><td>502052.60</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>192</td><td>1567201.97</td><td>502074.25</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>193</td><td>1567188.97</td><td>502095.90</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>194</td><td>1567175.97</td><td>502117.55</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>195</td><td>1567162.97</td><td>502139.20</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> 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<tr><td>205</td><td>1567032.97</td><td>502355.70</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>206</td><td>1567019.97</td><td>502377.35</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>207</td><td>1567006.97</td><td>502399.00</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>208</td><td>1566993.97</td><td>502420.65</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>209</td><td>1566980.97</td><td>502442.30</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>210</td><td>1566967.97</td><td>502463.95</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>211</td><td>1566954.97</td><td>502485.60</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>212</td><td>1566941.97</td><td>502507.25</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>213</td><td>1566928.97</td><td>502528.90</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>214</td><td>1566915.97</td><td>502550.55</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>215</td><td>1566902.97</td><td>502572.20</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>216</td><td>1566889.97</td><td>502593.85</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>217</td><td>1566876.97</td><td>502615.50</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>218</td><td>1566863.97</td><td>502637.15</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>219</td><td>1566850.97</td><td>502658.80</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>220</td><td>1566837.97</td><td>502680.45</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>221</td><td>1566824.97</td><td>502702.10</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>222</td><td>1566811.97</td><td>502723.75</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>223</td><td>1566798.97</td><td>502745.40</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>224</td><td>1566785.97</td><td>502767.05</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>225</td><td>1566772.97</td><td>502788.70</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>226</td><td>1566759.97</td><td>502810.35</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>227</td><td>1566746.97</td><td>502832.00</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>228</td><td>1566733.97</td><td>502853.65</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>229</td><td>1566720.97</td><td>502875.30</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>230</td><td>1566707.97</td><td>502896.95</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>231</td><td>1566694.97</td><td>502918.60</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>232</td><td>1566681.97</td><td>502940.25</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>233</td><td>1566668.97</td><td>502961.90</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>234</td><td>1566655.97</td><td>502983.55</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>235</td><td>1566642.97</td><td>503005.20</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>236</td><td>1566629.97</td><td>503026.85</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>237</td><td>1566616.97</td><td>503048.50</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>238</td><td>1566603.97</td><td>503070.15</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>239</td><td>1566590.97</td><td>503091.80</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>240</td><td>1566577.97</td><td>503113.45</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>241</td><td>1566564.97</td><td>503135.10</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>242</td><td>1566551.97</td><td>503156.75</td><td>2067.98</td><td></td><td>2069.48</td><td></td></tr> <tr><td>243</td><td>1566538.97</td><td>503178.40</td><td>2067.98</td><</tr></table></div>	81	1568580.32	499701.65	2065.50		2067.00		82	1568587.82	499723.30	2065.50		2067.00		83	1568601.97	499741.15	2065.48		2066.97		84	1568589.47	499735.80	2065.45		2066.95		85	1568576.97	499757.45	2065.42		2066.92		86	1568584.47	499779.11	2065.42		2066.92		87	1568551.97	499800.76	2065.42		2066.92		88	1568539.47	499822.41	2065.37		2066.13		89	1568526.97	499844.06	2065.73		2067.23		90	1568514.47	499865.71	2065.88		2067.38		91	1568501.97	499887.36	2066.03		2067.53		92	1568489.47	499909.01	2066.18		2067.68		93	1568476.97	499930.66	2066.33		2067.83		94	1568464.47	499952.31	2066.48		2067.98		95	1568451.97	499973.96	2066.50		2068.00		96	1568439.47	499995.61	2066.50		2068.00		97	1568426.97	500017.26	2066.45		2067.95		98	1568414.47	500038.91	2066.48		2067.98		99	1568401.97	500060.56	2066.56		2068.06		100	1568389.47	500082.21	2066.76		2068.26		101	1568376.97	500103.87	2066.96		2068.46		102	1568364.47	500125.52	2067.13		2068.63		103	1568351.97	500147.17	2067.29		2068.79		104	1568339.47	500168.82	2067.45		2068.95		105	1568326.97	500190.47	2067.91		2069.41		106	1568314.47	500212.12	2067.97		2069.47		107	1568301.97	500233.77	2067.98		2069.48		108	1568289.47	500255.42	2067.98		2069.50		109	1568276.97	500277.07	2068.02		2069.52		110	1568264.47	500298.72	2068.04		2069.54		111	1568251.97	500320.37	2068.06		2069.56		112	1568239.47	500342.02	2068.08		2069.58		113	1568226.97	500363.67	2068.10		2069.58		114	1568214.47	500385.32	2068.08		2069.58		115	1568201.97	500406.97	2068.08		2069.52		116	1568189.47	500428.62	2067.98		2069.48		117	1568176.97	500450.27	2067.98		2069.48		118	1568163.97	500471.92	2067.98		2069.48		119	1568150.97	500493.57	2067.98		2069.48		120	1568137.97	500515.22	2067.98		2069.48		121	1568124.97	500536.87	2067.98		2069.48		122	1568111.97	500558.52	2067.98		2069.48		123	1568098.97	500580.17	2067.98		2069.48		124	1568085.97	500601.82	2067.98		2069.48		125	1568072.97	500623.47	2067.98		2069.48		126	1568059.97	500645.12	2067.98		2069.48		127	1568046.97	500666.77	2067.98		2069.48		128	1568033.97	500688.42	2067.98		2069.48		129	1568020.97	500710.07	2067.98		2069.48		130	1568007.97	500731.72	2067.98		2069.48		131	1567994.97	500753.37	2067.98		2069.48		132	1567981.97	500775.02	2067.98		2069.48		133	1567968.97	500796.67	2067.98		2069.48		134	1567955.97	500818.32	2067.98		2069.48		135	1567942.97	500839.97	2067.98		2069.48		136	1567929.97	500861.62	2067.98		2069.48		137	1567916.97	500883.27	2067.98		2069.48		138	1567903.97	500904.92	2067.98		2069.48		139	1567890.97	500926.57	2067.98		2069.48		140	1567877.97	500948.22	2067.98		2069.48		141	1567864.97	500969.87	2067.98		2069.48		142	1567851.97	500991.52	2067.98		2069.48		143	1567838.97	501013.17	2067.98		2069.48		144	1567825.97	501034.82	2067.98		2069.48		145	1567812.97	501056.47	2067.98		2069.48		146	1567799.97	501078.12	2067.98		2069.48		147	1567786.97	501100.00	2067.98		2069.48		148	1567773.97	501121.65	2067.98		2069.48		149	1567760.97	501143.30	2067.98		2069.48		150	1567747.97	501164.95	2067.98		2069.48		151	1567734.97	501186.60	2067.98		2069.48		152	1567721.97	501208.25	2067.98		2069.48		153	1567708.97	501229.90	2067.98		2069.48		154	1567695.97	501251.55	2067.98		2069.48		155	1567682.97	501273.20	2067.98		2069.48		156	1567669.97	501294.85	2067.98		2069.48		157	1567656.97	501316.50	2067.98		2069.48		158	1567643.97	501338.15	2067.98		2069.48		159	1567630.97	501359.80	2067.98		2069.48		160	1567617.97	501381.45	2067.98		2069.48		161	1567604.97	501403.10	2067.98		2069.48		162	1567591.97	501424.75	2067.98		2069.48		163	1567578.97	501446.40	2067.98		2069.48		164	1567565.97	501468.05	2067.98		2069.48		165	1567552.97	501489.70	2067.98		2069.48		166	1567539.97	501511.35	2067.98		2069.48		167	1567526.97	501533.00	2067.98		2069.48		168	1567513.97	501554.65	2067.98		2069.48		169	1567500.97	501576.30	2067.98		2069.48		170	1567487.97	501597.95	2067.98		2069.48		171	1567474.97	501619.60	2067.98		2069.48		172	1567461.97	501641.25	2067.98		2069.48		173	1567448.97	501662.90	2067.98		2069.48		174	1567435.97	501684.55	2067.98		2069.48		175	1567422.97	501706.20	2067.98		2069.48		176	1567409.97	501727.85	2067.98		2069.48		177	1567396.97	501749.50	2067.98		2069.48		178	1567383.97	501771.15	2067.98		2069.48		179	1567370.97	501792.80	2067.98		2069.48		180	1567357.97	501814.45	2067.98		2069.48		181	1567344.97	501836.10	2067.98		2069.48		182	1567331.97	501857.75	2067.98		2069.48		183	1567318.97	501879.40	2067.98		2069.48		184	1567305.97	501901.05	2067.98		2069.48		185	1567292.97	501922.70	2067.98		2069.48		186	1567279.97	501944.35	2067.98		2069.48		187	1567266.97	501966.00	2067.98		2069.48		188	1567253.97	501987.65	2067.98		2069.48		189	1567240.97	502009.30	2067.98		2069.48		190	1567227.97	502030.95	2067.98		2069.48		191	1567214.97	502052.60	2067.98		2069.48		192	1567201.97	502074.25	2067.98		2069.48		193	1567188.97	502095.90	2067.98		2069.48		194	1567175.97	502117.55	2067.98		2069.48		195	1567162.97	502139.20	2067.98		2069.48		196	1567149.97	502160.85	2067.98		2069.48		197	1567136.97	502182.50	2067.98		2069.48		198	1567123.97	502204.15	2067.98		2069.48		199	1567110.97	502225.80	2067.98		2069.48		200	1567097.97	502247.45	2067.98		2069.48		201	1567084.97	502269.10	2067.98		2069.48		202	1567071.97	502290.75	2067.98		2069.48		203	1567058.97	502312.40	2067.98		2069.48		204	1567045.97	502334.05	2067.98		2069.48		205	1567032.97	502355.70	2067.98		2069.48		206	1567019.97	502377.35	2067.98		2069.48		207	1567006.97	502399.00	2067.98		2069.48		208	1566993.97	502420.65	2067.98		2069.48		209	1566980.97	502442.30	2067.98		2069.48		210	1566967.97	502463.95	2067.98		2069.48		211	1566954.97	502485.60	2067.98		2069.48		212	1566941.97	502507.25	2067.98		2069.48		213	1566928.97	502528.90	2067.98		2069.48		214	1566915.97	502550.55	2067.98		2069.48		215	1566902.97	502572.20	2067.98		2069.48		216	1566889.97	502593.85	2067.98		2069.48		217	1566876.97	502615.50	2067.98		2069.48		218	1566863.97	502637.15	2067.98		2069.48		219	1566850.97	502658.80	2067.98		2069.48		220	1566837.97	502680.45	2067.98		2069.48		221	1566824.97	502702.10	2067.98		2069.48		222	1566811.97	502723.75	2067.98		2069.48		223	1566798.97	502745.40	2067.98		2069.48		224	1566785.97	502767.05	2067.98		2069.48		225	1566772.97	502788.70	2067.98		2069.48		226	1566759.97	502810.35	2067.98		2069.48		227	1566746.97	502832.00	2067.98		2069.48		228	1566733.97	502853.65	2067.98		2069.48		229	1566720.97	502875.30	2067.98		2069.48		230	1566707.97	502896.95	2067.98		2069.48		231	1566694.97	502918.60	2067.98		2069.48		232	1566681.97	502940.25	2067.98		2069.48		233	1566668.97	502961.90	2067.98		2069.48		234	1566655.97	502983.55	2067.98		2069.48		235	1566642.97	503005.20	2067.98		2069.48		236	1566629.97	503026.85	2067.98		2069.48		237	1566616.97	503048.50	2067.98		2069.48		238	1566603.97	503070.15	2067.98		2069.48		239	1566590.97	503091.80	2067.98		2069.48		240	1566577.97	503113.45	2067.98		2069.48		241	1566564.97	503135.10	2067.98		2069.48		242	1566551.97	503156.75	2067.98		2069.48		243	1566538.97	503178.40	2067.98
81	1568580.32	499701.65	2065.50		2067.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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86	1568584.47	499779.11	2065.42		2066.92																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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89	1568526.97	499844.06	2065.73		2067.23																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
90	1568514.47	499865.71	2065.88		2067.38																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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92	1568489.47	499909.01	2066.18		2067.68																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
93	1568476.97	499930.66	2066.33		2067.83																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Libby Asbestos Project, Operable Unit 1				
Change / Modification Log				
Item No.	Drawing No.	Description	Approved Y I N	Date
001	Sht C9	Approval for USACE to direct the installation of the SWPPP and modify the installation as needed without approval of the City of Libby.	Y	Verbal: 9/29/11 Written: 10/4/11
002	Sht C4	Tree removal and relocation of rock detention basin	Y	10/4/2011
003	Sht C4	Correction of Elevation Point 410, Cad Glitch	Y	10/12/2011
004	Sht D2, Detail D	Change to accommodate the stormwater sumps which will be installed by the City. The removal contractor will excavate the locations (field determination) for the City's installation according to the City's available materials.	Y	10/12/2011
005	C6A	Relocate the sump from from the ENE, approximately 37' off of the NE Corner of the DTSAR building, in the new roadway to a field determined location, approximately SSW 10'.	Y	10/12/2011
006	Sht D2, Detail B	Change, the road sub-base materials from 6" of 3/4" minus crushed base course over 8" of 3" minus sub-base material, to 10" of 3/4" minus sub-base over at least 8" of 3" minus sub-base material.	Y	10/12/2011
007	Sht D1, Section 3	Parking areas sub-grade materials, the removal contractor will ensure a minimum thickness of 8" of 3/4" minus base course cap over the subgrade material that may be either 8" of 3/4" minus crushed or 3" minus fill sub-base for a total of 18" thickness.	Y	10/12/2011
008	Sht C4	Retain existing trees, large conifers, along the west boundary of Area 1. The trees were not shown on the plans. The parking area along the western perimeter of the site is to be adjusted to accommodate the trees.	Y	10/12/2011
009	n/a	Surveyor's elevation corrections.	Y	10/12/2011
010	n/a	Tree removal, remove cottonwood trees at SW corner of Area 1 due to visibly high vermiculite/tremolite.	Y	10/12/2011
011	Sht(s) C6, C6A & Sht D2, Detail B	Add shoulders at 2 location along new roadway.	Y	10/17/2011
012	Sheet C6A & D1, Section 1	Change from top soil to 3/4" minus crush at rear of DTSAR Building	Y	10/18/2011
013	Sheet C6 & Sheet D2, Detail D	Detention basin/rock trench, change to bundled rock in lieu of rectangular trench	Y	10/21/2011
014	Sheet C4 & Sheet C6D	Elevation corrections, points 580 & 479	Y	10/21/2011
015	Sheet C4	Modification of excavation depths and finish contours due to staked surveyed south property line adjustment vs plans	Y	10/21/2011
016	Sht(s) C-7, D1, D-3	The Area 2 remediation will be executed as detailed in the Draft Final OU1-Remedial Action Revision 2, dated February 2012	Y	2/28/2012
017	Sheet C-7	Area 2, the toe of the riprap will be extended to include the area below the pump house	Y	3/7/2012
018	n/a	Marker barrier was not placed in the parking area of DTSR. The marker barrier will be placed in the area excavated to facilitate the installation of the drainage sump(s)	Y	3/7/2012
019	Sheet C2	Area 2, modify excavation depth to avoid damage to shallow utilities.	Y	4/19-20/2012
020	Sheet C2	Area 2, increase removal and restoration area in the vicinity of the boat ramp	Y	4/19-20/2012

Libby Asbestos Project, Operable Unit 1				
Change / Modification Log				
Item No.	Drawing No.	Description	Approved Y I N	Date
021	Sheet C2	Area 2, east end of Area 2 beyond the Hwy 37 bridge. Due to shallow utilities, perform a shallow scrape, place geo-textile and marker barrier then backfill to match the preexisting grade.	Y	4/19-20/2012
022	Sheet D1, Section 5 (typical)	Area 2, eliminate the placement of a geo-textile barrier under the existing riprap. The existing riprap will not be moved.	Y	5/7/2012
023	C6	Area 1, modify the area adjacent the southern property line to include a drainage feature, berm/swale.	Y	5/7/2012
024	Sheet D1, Section 4 (typical)	Area 2, exclude common fill on embankments and provide a minimum 6" lift of top soil.	Y	5/7/2012
025	Sheet D1, Detail C	Area 2, Elimination of woody shrubs at the riprapped reveement.	Y	5/7/2012
026	Sheet C5 and D1	Area 2, reduce the limits of the pathway finished with 3/4" crushed rock.	Y	5/7/2012
027	Sheet C5	Area 2, place 1.5" crushed rock at the rear of the riverwater hydrant pad in lieu of top soil.	Y	5/24/2012
029	Sheet D2, Detail D	Detention basin/Rock trench, substitute a 6" lift of 1 1/2" washed rock for 6" of top soil.	Y	5/24/2012
030	Sheet D1, Section 3	Parking area section to have a final lift of 1" minus crushed rock.	Y	5/31 - 6/1/2012
031	Sheet D1, Detail C	due to shallow subsurface utilities along the top of the slope which prohibits further excavation, the installation of soils and associated erosion control measures is deleted.	Y	6/6 & 7/2012
032	Sheet C3	Relocate the tie in location at the east end of City Services Road and alter road profile and curve camber ("Super").	Y	6/6 & 18/2012
033	Sheet C6	City approved restoration seeding schedule	Y	6/6 & 7/2012
034	Sheet C7	Boat Ramp, eliminate 8 l.f. of articulated concrete mat due to the concrete slab which was poured at the bottom tie in to the existing concrete portion of the ramp to correct the angle of approach.	Y	6/25/2012
035	Sheet C6B	Elimination of two planter areas adjacent the search and rescue building	Y	6/25/2012
036	Sheet C6	Driveway to boat ramps. Eliminate partial circular planter in drive and eliminate abrupt curve in drive.	Y	6/29/2012
037	Sheet C7, Section 1	modify boat ramp tie in to top approach slab The armorFlex mat and the approach slab will be butted. The 1.5" crushed rock fill in the ArmorFlex mat will have 3/4" structural material substituted due to insufficient space to install 1.5" material	Y	6/29/2012
038	Sheet C6C	At the City of Libby's request and the EPA's direction the elevation of the northern end of the parking lot located to the southwest of the Pavilion will be tapered to meet the existing grade.	Y	6/29/2012
039	Sheet C6A	Modify the excavation depth of City Services road adjacent the search and rescue building	Y	6/29/2012
040	Sheet C6A	Enlargement of 2 rock trench drains at the request of the City of Libby	Y	Verbal: 7/17/12 Written: 8/14/2012

 <div>US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM</div>		
SURVEYED BY/DATE E.I.D. LLC 08/27/12		 <div>US EPA Region VIII Denver, Colorado</div> <div>LIBBY ASBESTOS SITE LIBBY, MONTANA</div> <div>RESTORATION AS-BUILT FOR OU1 MODIFICATION LOG</div>
DRAWN BY/DATE S. MARTIN 10/02/12		
CHECKED BY/DATE S. FELTON 10/02/12		
SUBMITTED BY / DATE: S. FELTON 10/02/12		
SCALE: AS NOTED	SHEET #: D8	PLOT SCALE: 1 : 1
DATE: 10/02/12		DRAWING TYPE: AS-BUILT
FILE LOCATION: ..\\2012 PROPERTIES\\OU1\\CAD\\AS-BUILT.DWG		

Appendix C

Analytical Results

OU1 Response Action Confirmation Soil Sample Results

Address	Sample ID	Sample Date	Matrix	Sample Type	Location Description	Sample Location Description	Composite	Aliquots	Top Depth (inches bgs)	Bottom Depth (inches bgs)	Field Comments	Analysis Method	% LA Result	% OA Result	% CH Result	VV None	VV Low	VV Med	VV High
303 W Thomas St	3R-00438	8/18/2011	Soil	Field Sample	Property	1	Yes	30	18	20		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-00439	8/18/2011	Soil	Field Sample	Property	2	Yes	30	18	20		PLM-9002	ND	ND	ND	30	0	0	0
MT Hwy 37 (ROW)	3R-01179	8/19/2011	Soil	Field Sample	Property	4	Yes	30	6	8		PLM-9002	ND	ND	ND	30	0	0	0
MT Hwy 37 (ROW)	3R-01180	8/19/2011	Soil	Field Sample	Property	5	Yes	30	6	8		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-00440	8/19/2011	Soil	Field Sample	Property	3	Yes	30	18	20		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-00432	8/22/2011	Soil	Field Sample	Property	9	Yes	30	6	8	West side slope	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-00607	8/22/2011	Soil	Field Sample	Property	6	Yes	30	6	10	West side slope	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-00608	8/22/2011	Soil	Field Sample	Property	7	Yes	30	6	10	West Side Slope	PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-00609	8/22/2011	Soil	Field Sample	Property	8	Yes	30	6	10	West Side Slope	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01362	8/25/2011	Soil	Field Sample	Property	10	Yes	30	6	8		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01908	10/1/2011	Soil	Field Sample	Property	6	Yes	30	0	0		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01945	10/1/2011	Soil	Field Sample	Property	4	Yes	30	0	0		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01946	10/1/2011	Soil	Field Sample	Property	5	Yes	30	0	0		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01998	10/1/2011	Soil	Field Sample	Property	1	Yes	30	0	0		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01999	10/1/2011	Soil	Field Sample	Property	2	Yes	30	0	0		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02000	10/1/2011	Soil	Field Sample	Property	3	Yes	30	0	0		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01881	10/3/2011	Soil	Field Sample	Property	7	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-01882	10/3/2011	Soil	Field Sample	Property	8	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01883	10/3/2011	Soil	Field Sample	Property	9	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-01893	10/3/2011	Soil	Field Sample	Property	10	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01894	10/3/2011	Soil	Field Sample	Property	11	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01895	10/3/2011	Soil	Field Sample	Property	12	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01986	10/3/2011	Soil	Field Sample	Property	13	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-01987	10/3/2011	Soil	Field Sample	Property	14	Yes	30	18	36		PLM-9002	ND	ND	ND	26	1	3	0
303 W Thomas St	3R-01988	10/3/2011	Soil	Field Sample	Property	15	Yes	30	18	36		PLM-9002	<1	ND	ND	25	2	3	0
303 W Thomas St	3R-01989	10/3/2011	Soil	Field Sample	Property	16	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01990	10/3/2011	Soil	Field Sample	Property	17	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01991	10/3/2011	Soil	Field Sample	Property	18	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01995	10/4/2011	Soil	Field Sample	Root Zone	19	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01996	10/4/2011	Soil	Field Sample	Root Zone	20	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01997	10/4/2011	Soil	Field Sample	Property	21	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02001	10/4/2011	Soil	Field Sample	Property	22	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02002	10/4/2011	Soil	Field Sample	Property	23	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02003	10/4/2011	Soil	Field Sample	Property	24	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02384	10/5/2011	Soil	Field Sample	Property	40	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02385	10/5/2011	Soil	Field Sample	Property	41	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02396	10/5/2011	Soil	Field Sample	Property	37	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02397	10/5/2011	Soil	Field Sample	Property	38	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02398	10/5/2011	Soil	Field Sample	Property	39	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02399	10/5/2011	Soil	Field Sample	Property	25	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02400	10/5/2011	Soil	Field Sample	Property	26	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02401	10/5/2011	Soil	Field Sample	Property	27	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02402	10/5/2011	Soil	Field Sample	Property	28	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02403	10/5/2011	Soil	Field Sample	Property	29	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02404	10/5/2011	Soil	Field Sample	Property	30	Yes	30	18	36		PLM-9002	ND	ND	ND	29	1	0	0
303 W Thomas St	3R-02405	10/5/2011	Soil	Field Sample	Property	31	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02406	10/5/2011	Soil	Field Sample	Property	32	Yes	30	18	36		PLM-9002	ND	ND	ND	29	1	0	0
303 W Thomas St	3R-02407	10/5/2011	Soil	Field Sample	Property	33	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02408	10/5/2011	Soil	Field Sample	Property	34	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02409	10/5/2011	Soil	Field Sample	Property	35	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02410	10/5/2011	Soil	Field Sample	Property	36	Yes	30	18	36		PLM-9002	ND	ND	ND	29	1	0	0
303 W Thomas St	3R-01992	10/6/2011	Soil	Field Sample	Property	42	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0

Address	Sample ID	Sample Date	Matrix	Sample Type	Location Description	Sample Location Description	Composite	Aliquots	Top Depth (inches bgs)	Bottom Depth (inches bgs)	Field Comments	Analysis Method	% LA Result	% OA Result	% CH Result	VV None	VV Low	VV Med	VV High
303 W Thomas St	3R-01993	10/6/2011	Soil	Field Sample	Property	43	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01994	10/6/2011	Soil	Field Sample	Property	44	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02381	10/6/2011	Soil	Field Sample	Property	45	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02382	10/6/2011	Soil	Field Sample	Property	46	Yes	30	18	36		PLM-9002	<1	ND	ND	27	0	3	0
303 W Thomas St	3R-02383	10/6/2011	Soil	Field Sample	Property	47	Yes	30	18	36		PLM-9002	<1	ND	ND	29	0	1	0
303 W Thomas St	3R-02386	10/6/2011	Soil	Field Sample	Property	A	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02387	10/6/2011	Soil	Field Sample	Property	B	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02388	10/6/2011	Soil	Field Sample	Property	C	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02389	10/6/2011	Soil	Field Sample	Property	D	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02390	10/6/2011	Soil	Field Sample	Property	E	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02391	10/6/2011	Soil	Field Sample	Property	F	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02394	10/6/2011	Soil	Field Sample	Property	48	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02395	10/6/2011	Soil	Field Sample	Property	49	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02393	10/7/2011	Soil	Field Sample	Property	S	Yes	30	0	2	Previous concrete pad	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02411	10/7/2011	Soil	Field Sample	Property	G	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02412	10/7/2011	Soil	Field Sample	Property	H	Yes	30	0	2		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02413	10/7/2011	Soil	Field Sample	Property	I	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02414	10/7/2011	Soil	Field Sample	Property	J	Yes	30	0	2		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02415	10/7/2011	Soil	Field Sample	Property	K	Yes	30	0	2		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02416	10/7/2011	Soil	Field Sample	Property	L	Yes	30	0	2		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02417	10/7/2011	Soil	Field Sample	Property	M	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02418	10/7/2011	Soil	Field Sample	Property	N	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02419	10/7/2011	Soil	Field Sample	Property	O	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02420	10/7/2011	Soil	Field Sample	Property	P	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02421	10/7/2011	Soil	Field Sample	Property	Q	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02422	10/7/2011	Soil	Field Sample	Property	R	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02423	10/7/2011	Soil	Field Sample	Property	50	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02424	10/7/2011	Soil	Field Sample	Property	51	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02425	10/7/2011	Soil	Field Sample	Property	52	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02427	10/7/2011	Soil	Field Sample	Root Zone	53	Yes	30	6	14		PLM-9002	ND	ND	ND	28	2	0	0
303 W Thomas St	3R-02428	10/7/2011	Soil	Field Sample	Property	54	Yes	30	18	36		PLM-9002	ND	ND	ND	22	3	5	0
303 W Thomas St	3R-01633	10/8/2011	Soil	Field Sample	Property	T	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01634	10/8/2011	Soil	Field Sample	Property	U	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02201	10/8/2011	Soil	Field Sample	Property	55	Yes	30	18	36		PLM-9002	ND	ND	ND	22	4	4	0
303 W Thomas St	3R-02202	10/8/2011	Soil	Field Sample	Property	56	Yes	30	18	36		PLM-9002	<1	ND	ND	27	0	3	0
303 W Thomas St	3R-02429	10/8/2011	Soil	Field Sample	Property	V	Yes	30	0	2		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02430	10/8/2011	Soil	Field Sample	Property	W	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02431	10/8/2011	Soil	Field Sample	Property	X	Yes	30	0	2		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02432	10/10/2011	Soil	Field Sample	Property	59	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02433	10/10/2011	Soil	Field Sample	Property	58	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02434	10/10/2011	Soil	Field Sample	Property	57	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02435	10/10/2011	Soil	Field Sample	Property	60	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02436	10/10/2011	Soil	Field Sample	Property	61	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02437	10/10/2011	Soil	Field Sample	Property	62	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02438	10/10/2011	Soil	Field Sample	Property	63	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02439	10/10/2011	Soil	Field Sample	Property	64	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02453	10/11/2011	Soil	Field Sample	Property	67	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02454	10/11/2011	Soil	Field Sample	Property	68	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02579	10/11/2011	Soil	Field Sample	Property	65	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02580	10/11/2011	Soil	Field Sample	Property	66	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02477	10/12/2011	Soil	Field Sample	Property	69	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02478	10/12/2011	Soil	Field Sample	Property	70	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02479	10/12/2011	Soil	Field Sample	Property	71	Yes	30	18	36		PLM-9002	ND	ND	ND	28	2	0	0
303 W Thomas St	3R-02499	10/12/2011	Soil	Field Sample	Property	78	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0

Address	Sample ID	Sample Date	Matrix	Sample Type	Location Description	Sample Location Description	Composite	Aliquots	Top Depth (inches bgs)	Bottom Depth (inches bgs)	Field Comments	Analysis Method	% LA Result	% OA Result	% CH Result	VV None	VV Low	VV Med	VV High
303 W Thomas St	3R-02623	10/12/2011	Soil	Field Sample	Property	72	Yes	30	18	36		PLM-9002	<1	ND	ND	28	2	0	0
303 W Thomas St	3R-02624	10/12/2011	Soil	Field Sample	Property	73	Yes	30	18	36		PLM-9002	ND	ND	ND	29	1	0	0
303 W Thomas St	3R-02625	10/12/2011	Soil	Field Sample	Property	74	Yes	30	18	36		PLM-9002	ND	ND	ND	29	1	0	0
303 W Thomas St	3R-02626	10/12/2011	Soil	Field Sample	Property	75	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02627	10/12/2011	Soil	Field Sample	Property	76	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02628	10/12/2011	Soil	Field Sample	Property	77	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02629	10/12/2011	Soil	Field Sample	Root Zone	79	Yes	30	18	36		PLM-9002	ND	ND	ND	29	1	0	0
303 W Thomas St	3R-02630	10/12/2011	Soil	Field Sample	Property	80	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02540	10/13/2011	Soil	Field Sample	Property	81	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02701	10/13/2011	Soil	Field Sample	Property	82	Yes	30	18	36		PLM-9002	<1	ND	ND	26	4	0	0
303 W Thomas St	3R-02702	10/13/2011	Soil	Field Sample	Property	83	Yes	30	18	36		PLM-9002	2	ND	ND	24	6	0	0
303 W Thomas St	3R-02703	10/13/2011	Soil	Field Sample	Property	84	Yes	30	18	36		PLM-9002	<1	ND	ND	26	4	0	0
303 W Thomas St	3R-02704	10/13/2011	Soil	Field Sample	Property	85	Yes	30	18	36		PLM-9002	ND	ND	ND	28	2	0	0
303 W Thomas St	3R-02705	10/13/2011	Soil	Field Sample	Property	86	Yes	30	18	36		PLM-9002	ND	ND	ND	29	1	0	0
303 W Thomas St	3R-02706	10/13/2011	Soil	Field Sample	Property	87	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02707	10/13/2011	Soil	Field Sample	Property	88	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02444	10/14/2011	Soil	Field Sample	Property	99	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02445	10/14/2011	Soil	Field Sample	Property	100	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02446	10/14/2011	Soil	Field Sample	Property	101	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02447	10/14/2011	Soil	Field Sample	Property	102	Yes	30	18	36		PLM-9002	<1	ND	ND	28	2	0	0
303 W Thomas St	3R-02448	10/14/2011	Soil	Field Sample	Property	103	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02449	10/14/2011	Soil	Field Sample	Property	104	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02450	10/14/2011	Soil	Field Sample	Property	105	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02451	10/14/2011	Soil	Field Sample	Property	106	Yes	30	18	36		PLM-9002	2	ND	ND	28	2	0	0
303 W Thomas St	3R-02452	10/14/2011	Soil	Field Sample	Property	107	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02632	10/14/2011	Soil	Field Sample	Property	95	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02633	10/14/2011	Soil	Field Sample	Property	96	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02634	10/14/2011	Soil	Field Sample	Property	98	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02635	10/14/2011	Soil	Field Sample	Property	108	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02636	10/14/2011	Soil	Field Sample	Property	109	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02637	10/14/2011	Soil	Field Sample	Property	110	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02713	10/14/2011	Soil	Field Sample	Property	89	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02714	10/14/2011	Soil	Field Sample	Property	90	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02715	10/14/2011	Soil	Field Sample	Property	91	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02716	10/14/2011	Soil	Field Sample	Property	94	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02719	10/14/2011	Soil	Field Sample	Property	92	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02720	10/14/2011	Soil	Field Sample	Property	93	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02577	10/17/2011	Soil	Field Sample	Property	Y	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02578	10/17/2011	Soil	Field Sample	Property	AF	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02638	10/17/2011	Soil	Field Sample	Property	AC	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02639	10/17/2011	Soil	Field Sample	Property	AD	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02640	10/17/2011	Soil	Field Sample	Property	AE	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02641	10/17/2011	Soil	Field Sample	Property	106	Yes	30	18	36		PLM-9002	2	ND	ND	30	0	0	0
303 W Thomas St	3R-02642	10/17/2011	Soil	Field Sample	Property	111	Yes	30	18	36		PLM-9002	2	ND	ND	15	8	3	4
303 W Thomas St	3R-02643	10/17/2011	Soil	Field Sample	Property	112	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02711	10/17/2011	Soil	Field Sample	Property	AG	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02712	10/17/2011	Soil	Field Sample	Property	Z	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02717	10/17/2011	Soil	Field Sample	Property	AA	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02718	10/17/2011	Soil	Field Sample	Property	AB	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02102	10/18/2011	Soil	Field Sample	Property	97	Yes	30	18	36		PLM-9002	ND	ND	ND	28	2	0	0
303 W Thomas St	3R-02103	10/18/2011	Soil	Field Sample	Property	117	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02104	10/18/2011	Soil	Field Sample	Property	118	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02126	10/18/2011	Soil	Field Sample	Property	114	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02127	10/18/2011	Soil	Field Sample	Property	115	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0

Address	Sample ID	Sample Date	Matrix	Sample Type	Location Description	Sample Location Description	Composite	Aliquots	Top Depth (inches bgs)	Bottom Depth (inches bgs)	Field Comments	Analysis Method	% LA Result	% OA Result	% CH Result	VV None	VV Low	VV Med	VV High
303 W Thomas St	3R-02128	10/18/2011	Soil	Field Sample	Property	116	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02644	10/18/2011	Soil	Field Sample	Property	111A	Yes	30	18	36		PLM-9002	<1	ND	ND	26	2	2	0
303 W Thomas St	3R-02645	10/18/2011	Soil	Field Sample	Property	112A	Yes	30	18	36		PLM-9002	2	ND	ND	26	4	0	0
303 W Thomas St	3R-02646	10/18/2011	Soil	Field Sample	Property	113	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-01069	10/19/2011	Soil	Field Sample	Property	122	Yes	30	18	36		PLM-9002	ND	ND	ND	27	3	0	0
303 W Thomas St	3R-01070	10/19/2011	Soil	Field Sample	Property	123	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01391	10/19/2011	Soil	Field Sample	Property	119	Yes	30	18	36	Discrete field sample of 99/100	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-01393	10/19/2011	Soil	Field Sample	Property	121	Yes	30	18	36		PLM-9002	<1	ND	ND	28	2	0	0
303 W Thomas St	3R-02141	10/19/2011	Soil	Field Sample	Property	124	Yes	30	18	36		PLM-9002	ND	ND	ND	25	5	0	0
303 W Thomas St	3R-02142	10/19/2011	Soil	Field Sample	Property	125	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02697	10/20/2011	Soil	Field Sample	Property	140	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02698	10/20/2011	Soil	Field Sample	Property	139	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02699	10/20/2011	Soil	Field Sample	Property	141	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02700	10/20/2011	Soil	Field Sample	Property	136	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02757	10/20/2011	Soil	Field Sample	Property	126	Yes	30	18	36		PLM-9002	<1	ND	ND	29	1	0	0
303 W Thomas St	3R-02758	10/20/2011	Soil	Field Sample	Property	128	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02759	10/20/2011	Soil	Field Sample	Property	127	Yes	30	18	36		PLM-9002	5	ND	ND	24	6	0	0
303 W Thomas St	3R-02760	10/20/2011	Soil	Field Sample	Property	130	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02761	10/20/2011	Soil	Field Sample	Property	131	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02762	10/20/2011	Soil	Field Sample	Property	132	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02763	10/20/2011	Soil	Field Sample	Property	133	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02764	10/20/2011	Soil	Field Sample	Property	134	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02765	10/20/2011	Soil	Field Sample	Property	135	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02766	10/20/2011	Soil	Field Sample	Property	112A	Yes	30	18	36	2nd 36" total depth across polygon	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02767	10/20/2011	Soil	Field Sample	Property	111A	Yes	30	18	36	2nd	PLM-9002	<1	ND	ND	29	1	0	0
303 W Thomas St	3R-02769	10/20/2011	Soil	Field Sample	Property	129	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02781	10/20/2011	Soil	Field Sample	Property	137	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02782	10/20/2011	Soil	Field Sample	Property	138	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02815	10/21/2011	Soil	Field Sample	Property	123A	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02816	10/21/2011	Soil	Field Sample	Property	123B	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02818	10/21/2011	Soil	Field Sample	Property	124A	Yes	30	18	36		PLM-9002	ND	ND	ND	29	1	0	0
303 W Thomas St	3R-02819	10/21/2011	Soil	Field Sample	Property	124B	Yes	30	18	36		PLM-9002	<1	ND	ND	26	4	0	0
303 W Thomas St	3R-02820	10/21/2011	Soil	Field Sample	Property	127	Yes	30	18	36		PLM-9002	3	ND	ND	15	6	6	3
303 W Thomas St	3R-02786	10/24/2011	Soil	Field Sample	Property	L1	Yes	30	18	36		PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-02787	10/24/2011	Soil	Field Sample	Property	L2	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02798	10/24/2011	Soil	Field Sample	Property	144	Yes	30	18	36		PLM-9002	ND	ND	ND	26	4	0	0
303 W Thomas St	3R-02799	10/24/2011	Soil	Field Sample	Property	145	Yes	30	18	36		PLM-9002	ND	ND	ND	28	2	0	0
303 W Thomas St	3R-02861	10/24/2011	Soil	Field Sample	Property	AG1	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02862	10/24/2011	Soil	Field Sample	Property	142	Yes	30	18	36		PLM-9002	ND	ND	ND	28	2	0	0
303 W Thomas St	3R-02863	10/24/2011	Soil	Field Sample	Property	143	Yes	30	18	36		PLM-9002	ND	ND	ND	27	3	0	0
303 W Thomas St	3R-02800	10/25/2011	Soil	Field Sample	Property	146	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02936	11/2/2011	Soil	Field Sample	Property	147	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-02939	4/23/2012	Soil	Field Sample	Property	148	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03351	4/26/2012	Soil	Field Sample	Property	149	Yes	30	12	14		PLM-9002	<1	ND	ND	26	4	0	0
303 W Thomas St	3R-03352	4/26/2012	Soil	Field Sample	Property	150	Yes	30	12	14		PLM-9002	ND	ND	ND	25	5	0	0
303 W Thomas St	3R-03353	4/26/2012	Soil	Field Sample	Property	151	Yes	30	12	14		PLM-9002	ND	ND	ND	27	3	0	0
303 W Thomas St	3R-03472	4/26/2012	Soil	Field Sample	Property	153	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03473	4/26/2012	Soil	Field Sample	Property	154	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03474	4/26/2012	Soil	Field Sample	Property	155	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03573	4/26/2012	Soil	Field Sample	Property	152	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03481	4/27/2012	Soil	Field Sample	Property	156	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03482	4/27/2012	Soil	Field Sample	Property	157	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03483	4/27/2012	Soil	Field Sample	Property	158	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03484	4/27/2012	Soil	Field Sample	Property	159	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0

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303 W Thomas St	3R-03485	4/27/2012	Soil	Field Sample	Property	160	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03486	4/27/2012	Soil	Field Sample	Property	161	Yes	30	12	14		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03574	4/27/2012	Soil	Field Sample	Property	162	Yes	30	12	14		PLM-9002	ND	ND	ND	28	2	0	0
303 W Thomas St	3R-04698	5/30/2012	Soil	Field Sample	Property	163	Yes	30	16	18	High Priority	PLM-9002	<1	ND	ND	25	4	1	0
303 W Thomas St	3R-03265	6/8/2012	Soil	Field Sample	Road (paved)	165	Yes	30	12	16		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03266	6/8/2012	Soil	Field Sample	Road (paved)	166	Yes	30	12	16		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-04841	6/8/2012	Soil	Field Sample	Road (paved)	164	Yes	30	12	16		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03254	6/9/2012	Soil	Field Sample	Road (paved)	169	Yes	30	12	18		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03923	6/9/2012	Soil	Field Sample	Road (paved)	167	Yes	30	18	20		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03924	6/9/2012	Soil	Field Sample	Road (paved)	168	Yes	30	18	20		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03925	6/13/2012	Soil	Field Sample	Road (paved)	170	Yes	30	18	36		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-03926	6/13/2012	Soil	Field Sample	Road (paved)	171	Yes	30	18	20		PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-04112	6/14/2012	Soil	Field Sample	Road (paved)	172	Yes	30	12	18	Sample collected after pavement excavated.	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-04858	6/14/2012	Soil	Field Sample	Road (paved)	173	Yes	30	18	36	Sample collected after pavement excavated	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-04859	6/14/2012	Soil	Field Sample	Road (paved)	174	Yes	30	18	36	sample collected after pavement excavated	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-04883	6/14/2012	Soil	Field Sample	Road (paved)	175	Yes	30	18	36	Sample collected after pavement excavated	PLM-9002	<1	ND	ND	30	0	0	0
303 W Thomas St	3R-04884	6/15/2012	Soil	Field Sample	Road (paved)	176	Yes	30	18	24	Samples collected after pavement excavated	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-04885	6/15/2012	Soil	Field Sample	Road (paved)	177	Yes	30	18	38	Sample collected after pavement excavated	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-04842	6/18/2012	Soil	Field Sample	Property	178	Yes	30	12	24		PLM-9002	<1	ND	ND	25	5	0	0
303 W Thomas St	3R-04895	6/19/2012	Soil	Field Sample	Property	179	Yes	30	12	38		PLM-9002	<1	ND	ND	24	6	0	0
303 W Thomas St	3R-03886	6/20/2012	Soil	Field Sample	Property	180	Yes	30	12	36		PLM-9002	2	ND	ND	6	20	0	4
303 W Thomas St	3R-03887	6/20/2012	Soil	Field Sample	Property	181	Yes	30	12	36		PLM-9002	<1	ND	ND	15	15	0	0
303 W Thomas St	3R-04852	6/21/2012	Soil	Field Sample	Property	182	Yes	30	24	30	Boat Ramp	PLM-9002	<1	ND	ND	19	8	3	0
303 W Thomas St	3R-04849	6/25/2012	Soil	Field Sample	Road (paved)	184	Yes	30	6	8	Samples collected after pavement excavated	PLM-9002	ND	ND	ND	29	1	0	0
303 W Thomas St	3R-04850	6/25/2012	Soil	Field Sample	Road (paved)	185	Yes	30	12	14	Samples collected after pavement excavated	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-04851	6/25/2012	Soil	Field Sample	Road (paved)	186	Yes	30	12	14	Samples collected after pavement excavated	PLM-9002	ND	ND	ND	30	0	0	0
303 W Thomas St	3R-04901	6/25/2012	Soil	Field Sample	Road (paved)	183	Yes	30	12	38	Sample collected after pavement excavation	PLM-9002	<1	ND	ND	30	0	0	0

Notes and Definitions:

Data summary is based on Scribe as of 11/20/12.

ID = identifier

bgs = below ground surface

% = percent

LA = Libby amphibole asbestos

OA = Other amphibole

CH = Chrysotile

ND = non-detect

< = less than

VV = visible vermiculite

OU1 Response Action Air Sample Results

Address	Sample ID	Sample Date	Matrix	Sample Venue	Sample Type	Location Description	Sub-location Description	Sample Pre Post Clear	Personnel Task	Sample Field Comments	Sample Quantity (liters of air)	Sensitivity	SensitivityCH	PCME		Total		PCME		Total		PCME		Total		PCM				
														LA Struc	LA Conc	LA Struc	LA Conc	OA Struc	OA Conc	OA Struc	OA Conc	CH Struc	CH Conc	CH Struc	CH Conc	Loading	LOD	Number FOV	Struct	Conc (/frc)
303 W Thomas St	3R-02792	10/24/2011	Air	Outdoor	Field Sample	Property	SW Corner of the excavation	NA	Operator		62														5.1E+00	4.3E-02	100	4	<	4.3E-02
303 W Thomas St	3R-02793	10/24/2011	Air	Outdoor	Field Sample	Property	SW Corner of the excavation	NA	Operator		267														6.4E+00	1.0E-02	100	5	<	1.0E-02
303 W Thomas St	3R-02795	10/24/2011	Air	Outdoor	Field Sample	Property	SW Corner of the excavation	NA	Laborer		62														3.2E+00	4.3E-02	100	2.5	<	4.3E-02
303 W Thomas St	3R-02796	10/24/2011	Air	Outdoor	Field Sample	Property	SW Corner of the excavation	NA	Laborer		279														1.5E+01	1.0E-02	100	12		2.2E-02
303 W Thomas St	3R-04283	6/8/2012	Air	Outdoor	Field Sample	Property	Road (Paved)	NA	Laborer		64														3.8E+00	4.2E-02	100	3	<	4.2E-02
303 W Thomas St	3R-04284	6/8/2012	Air	Outdoor	Field Sample	Property	Road (Paved)	NA	Laborer		202														0.0E+00	1.3E-02	100	0	<	1.3E-02
303 W Thomas St	3R-04285	6/8/2012	Air	Outdoor	Field Sample	Property	Road (Paved)	NA	Laborer		204														5.1E+00	1.3E-02	100	4	<	1.3E-02
303 W Thomas St	3R-04710	6/8/2012	Air	Outdoor	Field Sample	Property	Road (Paved)	NA	Operator		64														0.0E+00	4.2E-02	100	0	<	4.2E-02
303 W Thomas St	3R-04711	6/8/2012	Air	Outdoor	Field Sample	Property	Road (Paved)	NA	Operator		207														1.3E+01	1.3E-02	100	10		2.4E-02
303 W Thomas St	3R-04712	6/8/2012	Air	Outdoor	Field Sample	Property	Road (Paved)	NA	Operator		208														3.8E+00	1.3E-02	100	3	<	1.3E-02
303 W Thomas St	3R-04563	6/15/2012	Air	Indoor	Field Sample	Property	Cab of Truck	NA	Truck driver (Level D)		64														8.3E+00	4.2E-02	100	6.5		5.0E-02
303 W Thomas St	3R-04564	6/15/2012	Air	Indoor	Field Sample	Property	Cab of Truck	NA	Truck driver (Level D)		201														1.3E+01	1.3E-02	100	10		2.4E-02
303 W Thomas St	3R-04565	6/15/2012	Air	Indoor	Field Sample	Property	Cab of Truck	NA	Truck driver (Level D)		260														3.8E+00	1.0E-02	100	3	<	1.0E-02
303 W Thomas St	2R-08809	4/26/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot #18178; Geo Unit 8039 OU1	1211	4.9E-03	4.9E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08810	4/26/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot #18178; Geo Unit 8013 OU1	1211	4.9E-03	4.9E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08811	4/26/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot #18178; City Dig-Access Road to Water Fill Up Area OU1	1220	4.9E-03	4.9E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08813	4/27/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot# 18178; Geo Unit 8013	1238	4.8E-03	4.8E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08814	4/27/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot# 18178; Access Road to Pump Station	1244	4.8E-03	4.8E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08815	4/27/2010	Air	Indoor	Field Sample	Property	Clean Room Decon Trailer	NA		Lot# 18178; Clean Room	1241	4.8E-03	4.8E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08816	4/27/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot# 18178; Geo Unit 8039	1322	4.5E-03	4.5E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08824	4/28/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot 18178; 8013 Geounit	1453	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08825	4/28/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot 18178; Access Road to Water Fill Station	1435	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08826	4/28/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot# 18178; 8039 Geounit	1343	4.4E-03	4.4E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08833	4/29/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot 18178; Access road to water fill. Dry concrete cutting near cassette.	1376	4.3E-03	4.3E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08834	4/29/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot 18178; GEOUNIT 8039	1357	4.4E-03	4.4E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08837	4/30/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot 18178; E of Hwy 37 Bridge	1426	4.2E-03	4.2E-03			0	0			0	0			0	0					
303 W Thomas St	2R-08839	5/3/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot 18178	1327	4.5E-03	4.5E-03			0	0			0	0			0	0					
303 W Thomas St	2R-07570	5/4/2010	Air	Outdoor	Field Sample	Property	Down wind of excavation	NA		Lot 18178	1463	4.0E-03	4.0E-03			0	0			0	0			0	0					
303 W Thomas St	2R-07572	5/5/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot 18178	1327	4.5E-03	4.5E-03			0	0			0	0			0	0					
303 W Thomas St	2R-07574	5/6/2010	Air	Outdoor	Field Sample	Property	Downwind of excavation	NA		Lot 18178	1259	4.7E-03	4.7E-03			0	0			0	0			0	0					
303 W Thomas St	2R-07578	5/7/2010	Air	Outdoor	Field Sample	Property	Downwind of excavation	NA		Lot #18178	1208	4.9E-03	4.9E-03			0	0			0	0			0	0					
303 W Thomas St	2R-07580	5/10/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation	NA		Lot 18178	1538	4.8E-03	4.8E-03			0	0			0	0			0	0					
303 W Thomas St	2R-09391	5/11/2010	Air	Outdoor	Field Sample	Property	Downwind of excavation	NA		Lot 18178	1501	4.9E-03	4.9E-03			0	0			0	0			0	0					
303 W Thomas St	2R-09852	5/12/2010	Air	Outdoor	Field Sample	Property	East of Excavation	NA		Lot #16932	1251	4.7E-03	4.7E-03			0	0			0	0			0	0					
303 W Thomas St	2R-10011	5/24/2010	Air	Outdoor	Field Sample	Property	North of Excavation	NA		Lot #19876	1345	4.4E-03	4.4E-03			0	0			0	0			0	0					
303 W Thomas St	2R-10018	5/25/2010	Air	Outdoor	Field Sample	Property	Downwind of Excavation (N)	NA		Lot #19876	1365	4.3E-03	4.3E-03			0	0			0	0			0	0					
303 W Thomas St	3R-01154	8																												

Address	Sample ID	Sample Date	Matrix	Sample Venue	Sample Type	Location Description	Sub-location Description	Sample Pre Post Clear	Personnel Task	Sample Field Comments	Sample Quantity (liters of air)	Sensitivity	SensitivityCH	PCME		Total		PCME		Total		PCME		Total		PCM				
														LA Struc	LA Conc	LA Struc	LA Conc	OA Struc	OA Conc	OA Struc	OA Conc	CH Struc	CH Conc	CH Struc	CH Conc	Loading	LOD	Number FOV	Struct	Conc (f/cc)
303 W Thomas St	3R-02661	10/13/2011	Air	Outdoor	Field Sample	Property	North of excavation	NA			1345	4.4E-03	4.4E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02011	10/14/2011	Air	Outdoor	Field Sample	Property	northside of excavation	NA		AM winds: calm PM winds: calm	1331	4.5E-03	4.5E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02647	10/14/2011	Air	Outdoor	Field Sample	Property	Westside of excavation	NA		AM winds: calm PM winds: calm	1313	4.5E-03	4.5E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02648	10/14/2011	Air	Outdoor	Field Sample	Property	Southside of excavation	NA		AM winds: calm PM winds: calm	1265	4.7E-03	4.7E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02649	10/14/2011	Air	Outdoor	Field Sample	Property	Eastside of excavation	NA		AM winds: calm PM winds: calm	1236	4.8E-03	4.8E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02610	10/17/2011	Air	Outdoor	Field Sample	Property	North of excavation	NA			1313	4.5E-03	4.5E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02611	10/17/2011	Air	Outdoor	Field Sample	Property	West of excavation	NA			1322	4.5E-03	4.5E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02612	10/17/2011	Air	Outdoor	Field Sample	Property	South of excavation	NA			1339	4.4E-03	4.4E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02613	10/17/2011	Air	Outdoor	Field Sample	Property	East of excavation	NA			1351	4.4E-03	4.4E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02615	10/17/2011	Air	Indoor	Field Sample	Property	Western Decon Trailer	NA			1298	4.6E-03	4.6E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02616	10/17/2011	Air	Indoor	Field Sample	Property	Eastern Decon Trailer	NA			1295	4.6E-03	4.6E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02617	10/18/2011	Air	Outdoor	Field Sample	Property	North of excavation	NA		Winds AM: calm, PM: calm	1307	4.5E-03	4.5E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02618	10/18/2011	Air	Outdoor	Field Sample	Property	West of excavation	NA		Pump fault	1375	4.3E-03	4.3E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02619	10/18/2011	Air	Outdoor	Field Sample	Property	Southof excavation	NA		Winds AM: calm, PM: calm	1369	4.3E-03	4.3E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02620	10/18/2011	Air	Outdoor	Field Sample	Property	East of excavation	NA		Winds AM: calm, PM: calm	1322	4.5E-03	4.5E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02729	10/19/2011	Air	Outdoor	Field Sample	Property	West of excavation	NA			1455	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02730	10/19/2011	Air	Outdoor	Field Sample	Property	South of excavation	NA			1455	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02731	10/19/2011	Air	Outdoor	Field Sample	Property	East of excavation	NA			1426	4.2E-03	4.2E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02752	10/20/2011	Air	Outdoor	Field Sample	Property	North of excavation	NA		Calm winds AM/PM	1152	4.3E-03	4.3E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02753	10/20/2011	Air	Outdoor	Field Sample	Property	West of excavation	NA		Calm winds AM/PM	1167	4.2E-03	4.2E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02754	10/20/2011	Air	Outdoor	Field Sample	Property	South of excavation	NA		Calm winds AM/PM	1167	4.2E-03	4.2E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02755	10/20/2011	Air	Outdoor	Field Sample	Property	East of excavation	NA		Calm winds AM/PM	1170	4.2E-03	4.2E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02801	10/21/2011	Air	Outdoor	Field Sample	Property	North side of excavation	NA		Morning: Slight wind from the East, Afternoon: calm	1426	4.2E-03	4.2E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02802	10/21/2011	Air	Outdoor	Field Sample	Property	West side of excavation	NA		Morning: Slight wind from the East, Afternoon: calm	1432	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02803	10/21/2011	Air	Outdoor	Field Sample	Property	South side of excavation	NA		Morning: Slight wind from the East, Afternoon: calm	1432	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02804	10/21/2011	Air	Outdoor	Field Sample	Property	East side of excavation	NA		Morning: winds from the east , Aternoon: calm	1435	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02791	10/24/2011	Air	Indoor	Field Sample	Property	Clean Room # 0715-24	NA			1559	3.8E-03	3.8E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02856	10/24/2011	Air	Outdoor	Field Sample	Property	North of excavation	NA		Winds to the east: morning Winds to the east: Afternoon	1435	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02857	10/24/2011	Air	Outdoor	Field Sample	Property	West of excavation	NA		Winds to the east: morning Winds to the east: Afternoon	1440	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02858	10/24/2011	Air	Outdoor	Field Sample	Property	South of excavation	NA		Winds to the east: morning Winds to the east: Afternoon	1443	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	3R-02859	10/24/2011	Air	Outdoor	Field Sample	Property	East of excavation	NA		Winds to the east: morning Winds to the east: Afternoon	1446	4.1E-03	4.1E-03			0	0			0	0			0	0					
303 W Thomas St	3R-03421	4/19/2012	Air	Indoor	Field Sample	Property	Clean room #0610-63	NA			1362	4.3E-03	4.3E-03			0	0			0	0			0	0					
303 W Thomas St	3R-03422	4/19/2012	Air	Outdoor	Field Sample	Property	W of excavation	NA		AM wind:calm PM wind:calm	1382	4.3E-03	4.3E-03			0	0			0	0			0	0					
303 W Thomas St	3R-03532	4/20/2012	Air	Outdoor	Field Sample	Property	S of excavation	NA			1287	4.6E-03	4.6E-03			0	0			0	0			0	0					
303 W Thomas St	3R-03495	4/23/2012	Air	Outdoor	Field Sample	Property	W of Excavation	NA		AM-Calm PM-Calm	1232	4.8E-03	4.8E-03			0	0			0	0			0	0					
303 W Thomas St	3R-03341	4/24/2012	Air	Indoor	Field Sample	Property	Clean room #0610-63	NA			1292	4.6E-03	4.6E-03			0	0			0	0			0	0					
303 W Thomas St	3R-03342	4/24/2012	Air	Outdoor	Field Sample	Property	West of excavation	NA		Pump fault @ 382 minutes AM-calm PM-NW winds	1142	4.3E-03	4.3E-03			0	0			0	0			0	0					
303 W Thomas St	3R-03344	4/25/2012	Air	Outdoor	Field Sample	Property	East of excavation	NA		AM-East wind PM-calm	1307	4.5E-03	4.5E-03			0	0			0	0			0	0					
303 W Thomas St	3R-03758	5/10/2012	Air	Outdoor	Field Sample	Property	W of excavation	NA		AM-wind calm PM-wind 6mph NE	1284	4.6E-03	4.6E-03			0	0			0	0			0	0					
303 W Thomas St	3R-04036	5/14/2012	Air	Outdoor	Field Sample	Property	North East of excavation	NA		AM-wind NE 9mph PM-calm	1222	4.8E-03	4.8E-03			0	0			0	0			0	0					
303 W Thomas St	3R-04037	5/14/2012	Air	Indoor	Field Sample	Property	Clean room #0610-63	NA			1210	4.9E-03																		

Appendix D

RA Construction Documents

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT OU-1	DATE	8-9-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 70's, clear PM - 80's, clear
CQC Inspection phases attended and instruction given: 1600 - Observed H Fowler (PRI) used a bushhog to cut the high grass to facilitate the surveyors. Water truck used to suppress dust. Setup crew removed the existing safety fence and began constructing new containment.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • Good dust control .		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		
Information, instructions or actions taken not covered on QCR report or		

disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

8-9-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	8-10-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 70's, mostly sunny PM - 80's, mostly sunny
CQC Inspection phases attended and instruction given: 0830 - Setup crew (J Grey, M Jenkins PRI) on site continuing to construct containment. JG reports some grass and brush on the west end of the property to be cleared and the area has been watered to suppress dust. 0900 - H Fowler has been on site to give crew instructions and check progress. Off site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • Good dust control .		
Verbal instruction given to contractor: (Include names, reactions and remarks) 		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. 		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

8-10-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	8-16-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 60's, mostly sunny PM - 80's, mostly sunny
CQC Inspection phases attended and instruction given: 1210 - Attended pre construction meeting at OU-1 to perform non intrusive tasks until the final plans are received with representatives of EPA, USACE, PRI, AND CDM. Tasks reviewed to perform are the excavation and restoration at the search and rescue building, removal of the loading ramp, and removal of the railroad siding. Visible vermiculite inspection needs to be performed along the embankment in area 3. 1350 - On site. Crew has wet the area along the tracks to be removed and is cutting the bolts fastening the tracks together. H Fowler (PRI) has burn permit issued by M Fahland (PRI). Water trucks continuing to wet the areas along the tracks and the loading dock. 1505 - M Glaser (CDM) on site to observe progress. 1530 - HF reports crew to complete cutting bolts today and begin removing and deconning the tracks tomorrow. Off site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • Good dust control .		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

8-16-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	8-17-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's, mostly sunny PM - 80's, mostly sunny
CQC Inspection phases attended and instruction given: 0700 - Arrived on site; ER crew set up & relocated spur rails with T200 from in-place to city supplied flatbed trailer after water decon with 2" dia. water hose. 0715 - Perimeter air monitor placed adjacent to SW corner of loading ramp. 0845 - Completed rail relocation. No residual ACS observe on rails or flatbed. 0900 - ER started Area 1 loading ramp excavation and loaded out 3@10-whl end dumps for disposal at the mine site. Truck TAT ab/45min. Observed laborers wet soil during excavation and loading activities. 0915 - J Sabo on site. 1000 - Departed site for office. 1115 - Returned to site, loading ramp excavation continued in progress 1145 - Work stopped for lunch. 1330 - Work at loading ramp resumed and J Sabo, and I performed GPI at Area 3, West side of Hwy 37, embankment adjacent to Service Rd. Encountered low levels of apparent VCS, typ. in lower $\frac{1}{3}$ - $\frac{1}{2}$ of embankment face, and flagged discrete locations. Completed inspection to south embankment face at ab/1500 and will resume with embankment faces adjacent to Hwy 37 tomorrow. 1445 - ER completed loading ramp excavation to match adjacent grade and relocated to the Search & Rescue Bldg area, SW corner of gravel parking pad and began excavation. 1600 - ER stopped work for the day and departed site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No fugitive dust observe 		
Verbal instruction given to contractor: (Include names, reactions and remarks) N/A		
Has anything developed on the work which might lead to a change order or finding of fact? No		

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

N/A

Information, instructions or actions taken not covered on QCR report or disagreements:

N/A

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

At approx. 1530 observed 2 females driving past site headed west on Service Rd in Black X-over Lexus with Oregon license plates apparently videoing operation. On return trip heading east they stopped and apparently inquired from G Peek (ER) F Monroe's location (ER Foreman). Apparently, G Peek told them he was at an office meeting. Subsequently, I suggested to G Peek not to provide and information and only direct the public to USACE to answer all questions.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

8-17-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	8-18-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's, mostly sunny PM - 80's, partly cloudy, windy

CQC Inspection phases attended and instruction given:

0645 - Arrived on site; ER watered Search & Rescue area in advance of excavation.
0700 - Began excavation.
0730 - Relocated to Hwy 37 E-Embankment and began excavation in delineated 6" area.
0800 - J Sabo o/s and we conducted GPI LUA of Hwy 37 E-embankment. 3 points located.
0945 - Conducted GPI LUA of Hwy 37 W-embankment. No observed flakes encountered.
1115 - Harvey (ER) requested excavation confirmation sampling at S&R for PM and called Keeli.
1145 - Break for lunch.
1300 - Resumed excavation at S&R in parking apron NW corner.
1330 - Returned to E-embankment and observed Thomas Rd removed guardrail within excavator jaws. Informed Dee (ER) plan detail states not to remove guardrail.
1345 - M Cirian (EPA), J Ayala (USACE), M Darling (USACE), Rob (PRI), Dave (PRI), Harvey (ER) visited E-embankment to review GPI locations.
1400 - Visited W-embankment. M Cirian requested 2@PDI soil sampling of delineated 6" excavation area per: 35'-70' and 70'+ above toe of slope, for analytical results NLT 8-22-11.
1415 - Called P Lammers, per M Cirian's request, to schedule sampling.
1445 - O/S and sampled W-embankment.
1600 - ER completed work for day with approx. 3 loads remaining for tomorrow to complete S&R area. Departed site.
1630 - Returned to site and K Anderson and collected 2 confirmation samples at S&R.
1830 - Departed site.

Results of QA inspections and tests, deficiencies observed,

- Crew using proper PPE.
- No fugitive dust observe

Verbal instruction given to contractor: (Include names, reactions and remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

N/A

Information, instructions or actions taken not covered on QCR report or disagreements:

N/A

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

8-18-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	8-19-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's, mostly sunny PM - 80's, mostly sunny
<p>CQC Inspection phases attended and instruction given:</p> <p>0645 - Arrived on site; ER watered Search & Rescue area in advance of excavation.</p> <p>0700 - Began excavation.</p> <p>0800 - Completed excavation at S&R, decon'ed excavator and relocated to Service Rd S-embankment. Began 6"deep excavation at E-limit.</p> <p>Excavation at Thomas Rd N-embankment continued. D Jensen projected and requested confirmation soil samples scheduled after lunch.</p> <p>0845 - Departed site for schedule meeting at office (cancelled).</p> <p>1100 - Returned to site. J Sabo o/s at Hwy 37 E-embankment GPI LUA and assisted. No visible flakes encountered.</p> <p>1200 - Break for lunch.</p> <p>1300 - Returned to Thomas Rd E-embankment and observed excavator decon.</p> <p>1330 - K Anderson o/s and conducted confirmation soil sampling.</p> <p>1400 - Completed soil sampling. Returned to Service Rd S-embankment excavation.</p> <p>1430 - T422 excavator mobilized from Thomas Rd to OU-1 Area 3 to remove R/R ties adjacent to R/R tracks.</p> <p>1445 - O/S and sampled W-embankment.</p> <p>1600 - ER completed work for day at Service Rd S-embankment and R/R ties.</p>		
<p>Results of QA inspections and tests, deficiencies observed,</p> <ul style="list-style-type: none"> • Crew using proper PPE. • No fugitive dust observe 		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p> <p>N/A</p>		
<p>Has anything developed on the work which might lead to a change order or finding of fact?</p> <p>No</p>		
<p>Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.</p> <p>N/A</p>		

Information, instructions or actions taken not covered on QCR report or disagreements:

N/A

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

8-19-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	8-22-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's, mostly sunny PM - 90's, mostly sunny
CQC Inspection phases attended and instruction given: 0645 - Arrived on site; ER watered Service Rd S-embankment W-end area in advance of excavation and R/R ties in advance of removal. 0700 - Began excavation, and disposal at mine and tie removal, and disposal at landfill. 0900 - Completed excavation at embankment and tie removal. Called K Anderson and scheduled confirmation sampling at embankment. 0915 - K Anderson on site. 0945 - Completed sampling. 1000 - Decon'd T422 and loaded on flatbed. No additional areas designated for removal. Departed site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No fugitive dust observe 		
Verbal instruction given to contractor: (Include names, reactions and remarks) N/A		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. N/A		
Information, instructions or actions taken not covered on QCR report or disagreements: N/A		

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

8-22-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	8-24-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's, mostly sunny PM - 80's, mostly sunny
CQC Inspection phases attended and instruction given: 0830 - T Cooke and I visited site and observed restoration activities at Thomas St N-embankment. Laborers hand placing apparent top soil from flatbed at top of excavation. Bobcat pushing and track walking apparent top soil from toe up slope. 0845 - Relocated to Service Rd excavation and reviewed restoration work. 0900 - Departed site. 1045 - Received call from J Ayala requesting site visit. Informed him I was in progress of retrieving PAM sample at CMB OU5 and would be at the site at about 1200. 1100 - Called D Repine and T Cooke about requested meeting. We 3 met with J Ayala, H Fowler, and J Steeber. J Ayala informed us that the lower 35' of designated 6" excavation at Hwy 35 W-embankment is to be excavated. There was further discussion about OU1 grading and the city's proposed finish grades, and improvements. J Steeber requested written documentation of directives and changes to plans. J Ayala to coordinate with EPA. 1145 - Departed site to return to 375 Hwy 2.		
Results of QA inspections and tests, deficiencies observed,		
Verbal instruction given to contractor: (Include names, reactions and remarks) Refer to above.		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. N/A		

Information, instructions or actions taken not covered on QCR report or disagreements:

N/A

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

8-24-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	8-25-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's, mostly sunny PM - 90's, mostly sunny
CQC Inspection phases attended and instruction given: 0730 - Final removal of designated 6"D at Hwy 37 W-embankment in progress from toe of slope to approx 35'up gradient. 0745 - Request confirmation sampling by M Pritula and arrived on site at 0800. 0830 - Completed confirmation sampling at embankment departed site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No fugitive dust observe 		
Verbal instruction given to contractor: (Include names, reactions and remarks) N/A		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. N/A		
Information, instructions or actions taken not covered on QCR report or disagreements: N/A		
SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)		

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

8-25-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	8-26-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's, mostly sunny PM - 90's, mostly sunny
CQC Inspection phases attended and instruction given: 1300 - ER continuing restoration at Service Rd S-embankment. 10-wheel dump trucks stockpiling top soil at toe of slope and Bobcat shuttling soil to top of slope and track-walking in for compaction. Coconut mat installation in progress starting at W-end and progressing east. J Sabo and I conducted GPI at previously restored area adjacent to and south of the spur road designated as staging area. J Sabo observed 1 flake and disposed of it. 1330 - M Buss, J Ayala, and J Steeber observed on site and informed them of aforementioned GPI results, and concern of overloaded topsoil trucks spilling soil during transportation. 1400 - Departed site. 1530 - Received notice from D Repine that USACE directed the contractor not to include the ROD described visible marker placement between finish subgrade and fill on embankment restorations due to concern of introducing a weakened plane. *Visible marker placement was omitted at the Search and Rescue parking restoration.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No fugitive dust observe 		
Verbal instruction given to contractor: (Include names, reactions and remarks) N/A		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. N/A		

Information, instructions or actions taken not covered on QCR report or disagreements:

N/A

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

8-26-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	8-29-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's, mostly cloudy PM - 90's, mostly sunny
CQC Inspection phases attended and instruction given: 0930 - ER continuing restoration at Service Rd S-embankment at E-limit. 10-wheel dump trucks stockpiling top soil at toe of slope and Bobcat shuttling soil to top of slope and track-walking in for compaction. Coconut mat required repair apparently damaged by deer. ER elected to stake mat at top of slope to mitigate same. Typical metal staple penetrate top soil only, where the wood stakes penetrate stronger subgrade and may resist pulling out. Similar damage was reported at Thomas St restoration embankment and was similarly repaired. 1415 - Laborers continue mat repair and raking Service Rd embankment top soil at E-limit and bobcat placing and compacting by track-walking top soil on Hwy 37 W-embankment.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No fugitive dust observe 		
Verbal instruction given to contractor: (Include names, reactions and remarks) N/A		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. N/A		
Information, instructions or actions taken not covered on QCR report or disagreements:		

N/A

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

8-29-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	9-20-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's/40's, Foggy/Clearing PM - 60's, Mostly Sunny
<p>1258: Received phone call from H Fowler (ER/Superintendent) informing me previously stockpiled concrete debris was presently to be loaded and disposed of at the landfill. 1303: Arrived onsite. The 1st stockpile to be loaded was the previously demolished concrete slab adjacent to Service Rd south embankment. An EZ was established and the operator and laborer were wearing Level C PPE. 1322: The stockpile was pre-wetted from a water truck and top loaded by the Case 210 excavator into 10-Wheel dump trucks. 1439: Completed concrete removal, smooth graded the area, deconned the excavator, and relocated to another concrete stockpile located to the west of and at the toe of the access road ramp. 1442: Began concrete disposal in the same manner as previously described. 1504: Departed site. 1540: Returned to site. The concrete removal operation moved to the Thomas Rd embankment where apparent "clean" concrete was stockpiled, i.e. apparently the concrete was not originally comingled with VCS, therefore the operation was conducted in Level D. The concrete was loaded with a BC331 and completed in the same manner as previously described. 1628: Departed site.</p>		
<p>Results of QA inspections and tests, deficiencies observed,</p> <ul style="list-style-type: none"> • Crew using proper PPE. • No fugitive dust observe 		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p> <p>N/A</p>		
<p>Has anything developed on the work which might lead to a change order or finding of fact?</p> <p>No</p>		
<p>Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.</p> <p>N/A</p>		

Information, instructions or actions taken not covered on QCR report or disagreements:

N/A

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

9-20-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	9-22-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Mostly Sunny PM - 70's Mostly Sunny
1552: Drove by site and observed the Hitachi excavator turning the upper soils in the northern portion of the site west of the Search and Rescue building. The excavator was making windrows ~20' wide between previously rocked haul roads. No visible dust was observed. 1404: The water truck arrived and jet wetted the windrows, i.e. the operator did not exit the cab. 1644: Observed the excavator blew a hydraulic hose at the knuckle, which ended the activity. H Fowler (ER) exited the excavator, walked to Service Rd, and double-suited deconned at the EZ perimeter. 1628: Departed site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No fugitive dust observe. 		
Verbal instruction given to contractor: (Include names, reactions and remarks) N/A		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. N/A		
Information, instructions or actions taken not covered on QCR report or disagreements: N/A		

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

9-22-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	9-23-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Mostly Sunny PM - 70's Mostly Sunny
1028: Arrived at office to review proposed finish grade and existing grade plans to assure the area of turning the soil is in fact proposed for excavation to receive an 18" cap. Met with H Fowler (ER) and he anticipated resuming activities at ~1300. Arranged air sampling to coincide with soil disturbance. 1153: Departed office. 1328: Observed soil excavation by Hitachi excavator and soil watered from water truck.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No fugitive dust observe. 		
Verbal instruction given to contractor: (Include names, reactions and remarks) N/A		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. N/A		
Information, instructions or actions taken not covered on QCR report or disagreements: N/A		
SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)		

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

9-22-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	9-29-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Mostly Sunny PM - 70's Mostly Sunny
0900: Attended the pre-con meeting at the site. 1106: Departed site for office to review MDOT BMP manual and organize form work. 1400: Attended plan review meeting with CDM, EPA, and USACE at EPA offices. 1430: Attended follow up meeting with the City, EPA, USACE, CDM, and PRI in the same offices. 1542: Departed EPA offices for site. 1548: Arrived onsite with K Mainzhausen (CDM) for surveyor meeting. We reviewed the staking cut/fill layout. Observed the excavator clearing and grubbing the brush along the west property line. A water truck was wetting with a hose the debris as it was generated by the excavator. A laborer was using a ditchwitch to install silt fence along the south property line. A laborer was applying water from outside the EZ to the spoils using a hose. 1630: Attended follow up onsite meeting with EPA, USACE, CDM, PRI, and ER. Discussed the site layout, anticipated work progression across the site, SWPPP BMPs including the intercept trench adjacent and parallel to Service Rd, in lieu of wattles, as approved by the M Cirian (EPA). The decon trailers are to be relocated from the Pavilion parking area to within OU1 in the previously remediated area south of Service R and west of Spur Rd. 1733: Departed site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No fugitive dust observe. 		
Verbal instruction given to contractor: (Include names, reactions and remarks) N/A		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. N/A		

Information, instructions or actions taken not covered on QCR report or disagreements:

N/A

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

N/A

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

9-29-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	9-30-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Mostly Sunny PM - 80's Mostly Sunny

0822: Arrived onsite. Excavation mobilization was in progress: cordoning off the EZ, setting up decon west of the Spur Rd and south of Service Rd, installing silt fence along the south PL, pre-wetting existing grade, and installing traffic control devices per the Traffic Control Plan. 0839: R Burton (PRI) arrived onsite and informed me that the BNSF access permit was approved and the new haul route would be: Enter the site from southbound Hwy 37 and exit the site by heading eastbound under the Hwy 37 railroad bridge then enter Hwy 37 northbound via Thomas Rd. This route would eliminate flaggers on Hwy 37. 1101: Mobilization completed 1-excavation crew donned Level-C PPE entered the established EZ, west of Spur Rd, and began removal activities in the northwest corner of the site adjacent to northeast corner of the Search and Rescue parking lot. The excavation progressed ~25' south then east paralleling Service Rd. The excavation was ~2.5' BOG, rising in elevation as it progressed east. It was observed that the significant pre-wetting over the past week percolated ~12" deep. Below the upper ~12" the soil was very dry and the crew needed to work and blend the soil with water. This slowed the removal operation. The removal activities continued as described. 1205: Departed site. 1307: Returned to site. J Hubbard (USACE) and J Steeber (PRI) were onsite. 1334: We had an ad hoc meeting to discuss field changes documentation. It was agreed that the PRI punch list form would be modified for use. The primary form information is; detailed change description (both text and diagram), authorized initials (USACE,ER/PRI,CDM), change date, plan sheet number where the change is located, and if needed, who is responsible for follow up. The change log will be kept in the connex box with the associated red line drawings. It was also agreed that a separate soil sample red line drawing will be kept in the connex box. The sample red line will include delineated areas sampled with date, and analytical results with date. 1451: Second excavation crew arrived on site and began excavating adjacent to and south of the 1st crew. Removal activities progressed east similar to the 1st crew. 1602: K Anderson (CDM) arrived onsite to retrieve air samples. 1654: M Cirian (EPA) arrived onsite. We reviewed the day's work. He was concerned that there were 3-4 trucks waiting for loading and I explained that the aforementioned dry soil conditions. J Hubbard and J Steeber returned to site and I raised my concern that the removal activities create a safety concern of a severe drop off (~2') directly at edge of pavement. I stated that K-rail type barriers were typically required for this application, but they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP. 1700: Crews completed removal activities for the day. 1733: Departed site.

Results of QA inspections and tests, deficiencies observed,

- Crew using proper PPE.
- No fugitive dust observe.

Verbal instruction given to contractor: (Include names, reactions and remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

J Hubbard and J Steeber returned to site and I raised my concern that the removal activities create a safety concern of a severe drop off (~2') directly at edge of pavement. I stated that K-rail type barriers were typically required for this application, but they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

Ala Gerstenecker/The Western News

Joe Imhoff/City videotographer

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

9-30-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	9/30/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other <u> </u> Daily <u> </u>			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	NA	Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	<u> </u>	Hectares	<u> 9 </u>	Acres
Season DSA Limit	<u> </u>	Hectares	<u> 9 </u>	Acres
Field Estimate of Non-Active DSAs	<u> </u>	Hectares	<u> 6 </u>	Acres
Field Estimate of Active DSAs	<u> </u>	Hectares	<u> 3 </u>	Acres

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		
Is the area where temporary soil stabilization required free from visible erosion?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?			x	
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			x	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?		x		
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?			x	
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		
If yes, has the Engineer been notified?				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-1-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 40's Overcast Lt Rain PM - 70's Partly Sunny
<p>0743: Arrived onsite. Three excavation crews continuing from yesterday's progression in parallel from north to south starting adjacent to City Rd south EOP heading east from the Search and Rescue (S&R) parking area. 0814: F Munroe (ER) requested eliminating the excavation west of the S&R to PL. He stated the area was previously remediated 4yrs ago. 0821: Departed site for office. I conveyed F Munroe's request to N P Piscotta (CDM) who in turn stated he would review historical remediation documents with N Raines (CDM). I met with J Hubbard (USACE) regarding SWPPP changes from plan. He said the plans will be redlined accordingly next week when the connex box is onsite. 0838: Returned to site. 0842: N Piscotta called stating that a WL only was installed in the S&G west area, not that the entire area was remediated. I conveyed this to F Munroe who stated he disagreed because he was involved with the remediation. I introduced the OU1 ROD which he was unaware of and stated that the site specific ROD dictates the remediation extent. 0919: K Anderson and K Probst (CDM) arrived onsite to review and setup soil sampling program. 0942: J Hubbard and R Burton (PRI) arrived onsite and we reviewed removal status, and projection. 1026: Observed surveyors resetting lathes in excavated area and that on average the area appears to be overexcavated ~5". I observed that the only data on the lathes was finish subgrade depth relative to design depth (i.e. +/- 0). I requested they include the same proposed cut depths, as on the excavation lathes for us to determine FSDS samples depths. They stated they did not record that data within the datalogger and would not be able to provide it until Monday. 1202: Departed site. 1303: Returned to site. 1317: J Steeber (PRI) informed me the easternmost removal crew observed significant VCS in the pt#661 area, all within a proposed fill area. I donned Level C PPE, entered the EZ, and confirmed the crew's observations with J Hubbard, R Burton, J Steeber, F Munroe who were present. It was determined to overexcavate until minor-moderate VCS was encountered. While in EZ reviewed surveyors field procedures. 1413: Exited EZ. 1428: J Hubbard requested soil samples collection. Called K Anderson and she and K Probst arrived onsite. 1500: Northernmost crew relocated southeast of other crews. 1520: They were laying out areas when M Forkel (CDM) called requesting them at Granite Ck. 1532: K Anderson and K Probst departed site. 1704: K Anderson and K Probst returned to site and sampled readied areas. 1700: Crews completed day's work. 1804: Departed site.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities create a safety concern of a severe drop off (~2') directly at edge of pavement. I stated that K-rail type barriers were typically required for this application, but they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-1-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/1/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	NA	Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ Acres	9	
Season DSA Limit	_____ Hectares	_____ Acres	9	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	6	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	3	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill sch'd next week.
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		
If yes, has the Engineer been notified?				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-3-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 40's Overcast PM - 70's Mostly Sunny
<p>0730: Attended sampling meeting in the office with the OU1 CDM team. Designated samplers and established staffing level. 0845: Arrived onsite. Three excavator crews (1-operator & 2-laborers each) working in progression as previously established. One operator at each excavator was wetting soil with a fire hose and the other tending to the truck by untarpping, and tarping and cleaning fugitive spillage from the truck with a garden hose. 0930: Ad hoc site meeting: M Cirian (EPA), J Hubbard (USACE), R Burton, and J Steebbers (PRI), F Munroe (ER) to discuss and establish VCS concentration concurrence and remedial approach to reduce high levels to acceptable low-moderate. It was agreed that laborers are to notify the QC and TQA when VCS is encountered. The TQA evaluate the soil. If the soil is deemed high the TQA will contact USACE for site visit and develop removal protocol. The general approach is to identify high VCS pockets or lenses and remove it to a level of low-moderate or to a max depth of 36" below finish grade, whichever is 1st. Those areas will be sampled similar to standard confirmation protocols to analyze for LA. 1025: Walked site with M Cirian to locate the 2 perimeter air samples (1-at EOP opposite the pavilion and 1-at the S&R southeast corner parking area). He requested a 3rd sample placed along the south PL. 1055: Departed site. 1345: Returned to site with G Bedey (VCI). The easternmost excavator was removing soil in the fill designated area west of the Spur Rd. The excavator followed the aforementioned protocol excavating ~12" throughout the area and trenching an additional ~12" in 2 areas. 1452: C O'loughlin, and K Probst (CDM) arrived onsite to reconnoiter the site plan and soil sample. 1710: K Anderson and R Mayette (CDM) arrived onsite to assist with soil sample collection. Some low to moderate VCS was observed. The sampling team also conducted a GPI of partially excavated areas not ready for sampling. Only low VCS was observed. Throughout the day observed apparent BNSF utility vehicles traveling and working south of the PL and generating a lot of dust. Prevailing winds are from the south, consequently carrying dust towards the site. 1830: Departed site.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities create a safety concern of a severe drop off (~2') directly at edge of pavement. I stated that K-rail type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-3-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/3/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	NA	Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ Acres	9	
Season DSA Limit	_____ Hectares	_____ Acres	9	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	6	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	3	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill sch'd next week.
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			X	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	X			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	X			
Are all paved areas free of visible sediment tracking or other particulate matter?	X			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	X			
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		
If yes, has the Engineer been notified?				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-4-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's Overcast, Lt Rain PM - 50's Overcast, Lt Rain
<p>0836: Arrived onsite. Three excavation crews continued progression south of the Search & Rescue (S&R) moving westward, as previously established. Observed exposed telephone lines ~50' south of S&R. 0910: J Steeber (PRI) was onsite and discussed high visible VCS overexcavation protocols. He understood the RC was authorized to overexcavate without USACE preauthorization and direction. 0910: Called J Hubbard (USACE) who stated the RC was authorized to overexcavate when high VCS is encountered, though he wants to be notified when encountered. 0913: Conducted SWPPP site inspection. Observed south silt fence in southwest corner needed anchoring and hay bales placed along the west PL silt fence. 1004: Informed H Fowler (ER) of SWPPP repairs. 1032: Laborer arrived onsite and made SWPPP repairs. 1115: C O'loughlin and K Probst (CDM) to conduct GPI and collect soil samples. 1238: Reviewed sample location plan for plotting. 1243: Inquired of H Fowler when backfill at City Rd south EOP would occur now that adjacent soil analysis results indicated as acceptable. He stated he would inquire at a scheduled 1400 meeting. 1548: Stated that a backfill crew was scheduled for ~1600. 1604: Backfill 4-person crew arrived to install construction fence barrier. Discussed fill staking with H Fowler and apparently the staking does not indicate all areas finish subgrade is achieved as noted. R Burton (PRI), F Munroe (ER), and the surveyor (Ken) was included in the discussion and confirmed road, and parking areas were not staked and he did not know if those areas were cut or fill, that other discrete areas with fill staking were not a finish subgrade. The survey crew will prioritize road, and parking area staking tomorrow. Further discussion ensued regarding when road, parking areas would be excavated relative to adjacent subgrade. Currently the road, and parking areas will be excavated sometime after adjacent grade is filled with import. R Burton stated that roads, and parking areas are to be soil sampled separately. 1745: J Hubbard and L Woscyna (USACE) arrived onsite. Discussed road, and parking area sampling. J Hubbard stated areas can be sampled as part of adjacent subgrade if soil appears homogeneous. 1745: Trailer arrived onsite. 1808: Departed site.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities create a safety concern of a severe drop off (~2') directly at edge of pavement. I stated that K-rail type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-4-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-4-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's Overcast, Lt Rain PM - 50's Overcast, Lt Rain
<p>0833: Arrived onsite. Excavation operations continued as previously established; 3-excavation crews in parallel north to south excavating and moving west to east. 0938: Onsite meeting attended by J Hubbard (USACE), D Repine (CDM), R Burton and J Steeber (PRI), H Fowler (ER). We discussed the concern that the road footprint subgrade from ~Sta 03+50 to ~Sta -6+00 was not at grade and questioned when those areas would be released for soil sampling. R Burton stated he was waiting for the surveyor's determination. We proceeded to the fill area (no excavation required to meet the min 18" cover criteria) east of the Spur Rd and south of City Rd. J Hubbard agreed that the minimal vegetation could be removed at grade without disturbing soil and therefore was ready for confirmation soil sampling. R Burton stated that the surveyor will place 4-lathes min congruent with the quadratic grade points, and establish the cut/fill daylight line. CDM will use those points to project and establish remaining grade points within the fill area in order to soil sample the area. 1028: Meeting concluded. 1115: C O'loughlin and K Probst (CDM) arrived onsite to conduct GPI of recently exposed finish subgrade and collect soil samples. 1116: Received requested grading plan (WGM's proposed finish grade contours and CDM's existing contours, only). Upon review of the plan some contours appeared missing R Burton and I called C Robertson (EID) who stated he would have the revised drawing to us by 1400. 1200: Departed site. 1247: Returned to site. Surveyor informed me the aforementioned road footprint subgrade was at grade and therefore those previously sampled areas were valid. 1348: Conducted SWPPP inspection. (Refer to checklist for status.) 1433: M Cirian (EPA) visited site and did not comment on construction issues. Conversely, earlier a known individual was observed speeding through the construction zone in a 10-wheel dump truck towing an equipment trailer. M Cirian directed the QC who observed the incident to file an official complaint with the police. 1509: Received electronic revised grading drawing and returned to office to print. Returned to site and reviewed the plan and the current excavation area, the swales north of the parking areas at ~Sta 08+00 to ~Sta 09+50. There appeared to be some anomalies that the surveyor will check at his office. 1700: Attended site closeout meeting: J Hubbard and J Ayala (USACE), R Burton and J Steeber, H Fowler and F Munroe (ER), and K (EID). Soil sample status and documentation was discussed, and agreed to and I informed them that CDM was remaining current with available sample areas as well as analytical results. H Fowler concurred. 1810: Departed site for office.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		

Verbal instruction given to contractor: (Include names, reactions and remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities create a safety concern of a severe drop off (~2') directly at edge of pavement. I stated that K-rail type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-5-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/5/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input checked="" type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	48hrs
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ Acres	9	
Season DSA Limit	_____ Hectares	_____ Acres	9	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	5	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	4	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill sch'd next week.
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south fnc anchored and west fnc hay bales, tho no north barrier installed per EPA & USACE
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, has the Engineer been notified?				
Location:				
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-6-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's Overcast, Lt Rain PM - 50's Overcast, Lt Rain
<p>0715: Attended meeting at ER's offices with R Burton and J Steeber (PRI), H Fowler (ER), and C Robertson and K Davis (EID) regarding grading plan. C Robertson explained the finish grade contours differ from the CDM drawings because they were point generated by EID, and not a CDM AutoCADD layer, as assumed. He stated the contours are representative of construction drawings. 0803: Arrived onsite. Observed excavation operations continued as previously established. The excavators were working north of proposed roadway alignment adjacent to ~Sta 08+00 - ~Sta 09+00. The area is a deeper cut which generates similar spoils quantities, though the excavation is not progressing as quickly laterally. Consequently it reduces the confirmation soil sampling. 0911: Surveyors were placing point lathes east of Spur Rd. I observed they commenced adjacent to the south PL. I requested of R Burton for them to start in the north in order to place fill lathes before cut lathes, which he agreed and I conveyed the request to the surveyors. 1043: Began transcribing soil sample locations from field copy to project red-lines, and build reference sample log sheet. 1044: ER crews arrived onsite to continue with orange fence barrier placement. 1152: C O'loughlin and K Probst (CDM) arrived onsite to collect samples. No area was available for sampling for reason stated above. C O'loughlin visited the area east of Spur Rd and reported there were not sufficient lathes to layout the sampling plan. 1228: Departed site. 1304: Returned to site. R Burton visited site and we reviewed the nonwoven geotextile filter fabric material submittal comparing the WGM specifications and PRI's proposed fabric. In general the proposed fabric meets or exceeds individual ASTM test criteria. R Burton to provide material cut sheet for project file. 1421: M Cirian (EPA) visited site and requested orange fence material barrier to be spaced with ~12" separation, rather than abutted, as previously placed. 1700: Site closeout meeting. Discussed the relocated trench drain west of ~Sta 06+30 was moved south so that the swale now discharged more northerly, and other changes approved by the City. R Burton stated a meeting with the City is scheduled for tomorrow, 10/7/11. J Ayala (USACE) reviewed and approved the aforementioned confirmation soil sample layout and sample log. 1738: Assisted sample techs with quadratic layout and sample locations. 1928: Departed site.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-6-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/6/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input checked="" type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	48hrs
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ Acres	9	
Season DSA Limit	_____ Hectares	_____ Acres	9	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	5	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	4	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill sch'd next week.
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south fnc anchored and west fnc hay bales, tho no north barrier installed per EPA & USACE
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, has the Engineer been notified?				
Location:				
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-7-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 50's Overcast PM - 50's Overcast
<p>0754: Arrived onsite. Conducted SWPPP inspection from the previous night's rain. Neither erosion nor sediment migration observed. Three excavation crews working in parallel as previously established. The excavation has progressed to the southwest property corner and soil removal appears to be ~18" nominally deep and therefore the easterly progression is slower in comparison to the first days, while volumetric production is similar. Backfill operations commenced. 10-wheel dump trucks tailgated at the northeast corner of the Search and Rescue (S&R) parking area. Common Soil was placed on previously placed orange construction fence material and the soil was pushed ahead with a 650 dozer developing an apparent ~6" lift eastward. Some of the fence was observed to ravel slightly by the apparent lateral force of the soil. As the backfill operations progressed southward away from City Rd the dozer was able to push the soil parallel with fence alignment which mitigated the raveling (i.e. the fence is place at ~30° to the EOP). As the dozer was able to push and work the soil ~50' away from EOP the 124BW vibratory smooth-drum compactor was able to access and compact the soil. This allowed the trucks to travel on the fill and end dump farther into the fill area. The 1st lift of the fill area completed extended ~100' to the south of City Rd between the S&R parking area and the decon area. 0833: C O'loughlin (CDM) onsite to collect soil samples in the fill area east of Spur Rd and completed sample collection in available areas. Updated soil sample plan and log. 1148: C O'loughlin arrived onsite to collect excavation confirmation soil samples. 1223: Departed site. 1304: Returned to site. 1328: R Burton (PRI) arrived onsite and submitted material cut sheet for geotextile filter fabric. 1700: Attended onsite close out meeting. Main topics discussed were: 1)per the City, the sump adjacent to the northeast corner of the S&R building can be adjusted west and rim elevation raised to a min 2%S, trees shall remain, and the road section will be revised; 2)conversely per the city, the cottonwood trees in the southwest corner can be removed due to high VCS; and 3)K Davis (EID) stated he needed curve data to layout the road and parking area. It is uncertain where the data can be obtained. 1813: Departed site.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-7-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/7/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input checked="" type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	48hrs
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ Acres	9	
Season DSA Limit	_____ Hectares	_____ Acres	9	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	4	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	5	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill sch'd next week.
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south fnc anchored and west fnc hay bales, tho no north barrier installed per EPA & USACE
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, has the Engineer been notified?				
Location:				
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-8-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 40's Overcast PM - 50's Overcast
<p>0717: J Ayala (USACE), R Burton and J Steeber (PRI), H Fowler and F Munroe (ER), K Davis (EID), and P Lammers (CDM) attended an ad hoc meeting at ER's offices after the safety meeting. The primary topic of discussion was per K Davis there was insufficient data on the plans to layout the roads and parking areas. In particular northerings or point staking at 25' O.C. and curve data was not contained on the plans or AutoCADD drawings. Apparently, EID only recently received the AutoCADD drawings. 0802: Arrived onsite. Excavation operations continued with 3 crews in the southwest corner of site progressing east. Backfill operations continued placing the 1st lift of common fill to the south of and parallel with City Rd. 10-wheel dump trucks tailgated stockpiles and a single operator was switching from dozer to skidsteer to progress the fill from the stockpiles southward followed by a smoothdrum rubber mounted vibratory compactor in the open areas. The compactor operator would switch between the ride-on compactor and the walk-behind plate compactor to compact soils in contact with the lathes 25' O.C. Compaction effort appears uniform and constant. The backfill material at the northwest corner adjacent to the Search & Rescue parking area and parallel to City Rd reduces and consequently mitigates the safety issue of the EOP drop off. 0834: R Burton (PRI) arrived he and I discussed the design control for grading/survey data and it was agreed that M Matassa-Stone (WGM), the engineer of record, was the appropriate POC. K Davis was summoned by R Burton and we called M Matassa-Stone. She agreed to a call-back teleconference when she could arrive at her office to review the plans. 0920: P Lammers and N Raines (CDM), and J Ayala attended the teleconference. In summary CDM, EID, and WGM each stated they could provide the required staking data by extrapolating from the plans, but it was agreed that the City was best for the City to contract the work with WGM, if agreed. The data would be provided piecemeal from C6A thru C6D beginning 10/10/11. 1029: Meeting adjourned. 1115: C O'loughlin (CDM) arrived onsite to collect samples of recently staked area east of Spur Rd adjacent to the south PL. 1130: R Burton returned to site and informed me the City agreed to contract WGM to provide staking information. 1422: Excavating crew encountered high VCS with LA and will remove beyond proposed design limits. 1538: M Cirian (EPA) arrived onsite. He directed the RC to create a swale adjacent to and south of City Rd that is ~25' wide X ~1' deep FL at CL and the swale will drain to the east and west into shallow non-designed retention basins. 1700: Departed site.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and		

remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-8-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-10-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 40's Overcast PM - 50's Overcast
<p>0822: Arrived onsite. Excavation operations continued with 3 crews in the southwest corner of site progressing east. Backfill operations continued placing the 1st lift of common fill to the south of and parallel with City Rd. 10-wheel dump trucks tailgated stockpiles and a single operator was switching from dozer to skidsteer to progress the fill from the stockpiles southward followed by a smoothdrum rubber mounted vibratory compactor in the open areas. The compactor operator would switch between the ride-on compactor and the walk-behind plate compactor to compact soils in contact with the lathes 25' O.C. Compaction effort appears uniform and constant. Met with R Burton (PRI) and K Davis (EID) to review the road staking plan just received by EID from WGM. Edges of road, and shoulders and CL stake points 25'O.C. for the entire alignment was shown on the plan. K Davis stated they appear complete. 0902: J Steeber (PRI) arrived onsite and stated BNSF R/R gave permission to drop the 2 cottonwood trees adjacent to PL/ROW. Consequently, the trees were undermined by the excavator pushed over by the bucket in an easterly direction. The trees were cut into full rounds ~6'L, and deposited in 10-wheel dump trucks for disposal. 0928: T Cooke and N Raines (CDM) arrived onsite to primarily address the south PL/ROW delineation conflict. The plan describes point stakes 83-116 as inboard of the PL, though they are projected to be south of the PL as surveyed, i.e. there is discrepancy of the PL north/south location. A field meeting was conducted along the south PL and the MW rim, at pt100(per the plans) was ~15' within the property, but in the field was observed to be on the PL. T Cooke, N Raines, R Burton, J Steeber, and K Davis attended. K Davis stated EID used to temporary pins set by others along the south PL to set the construction limits. He said he would review the alignment and compare it with BNSF R/R maps to verify PL location. 1047: Meeting adjourned. 1103: Tree removal operation completed. 1208: Departed site. 1303: Returned to site. 1307: Met with J Steeber and K Davis to review the road/parking area staking plan reflective of sheet C6A just received by EID from WGM. The information appeared comprehensive though cross-slope data appeared to be missing. K Davis stated he would follow up with WGM. 1341: Conducted SWPPP inspection. 1446: Met with J Steeber to review documented field changes to update the change log. I provided minor comments and stated he would vet the changes through the USACE for approval. 1536: J Ayala (USACE) arrived onsite and stated he reviewed the aforementioned changes would 1st wait for the City's approval before acceptance.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and		

remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-10-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/10/11			
Inspection Type (Check Applicable)	<input checked="" type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	48hrs
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ Acres	9	
Season DSA Limit	_____ Hectares	_____ Acres	9	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	4	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	5	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill sch'd next week.
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south fnc anchored and west fnc hay bales, tho no north barrier installed per EPA & USACE
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, has the Engineer been notified?				
Location:				
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-11-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 40's Overcast, Rain PM - 40's Overcast, Rain
<p>0726: Attended office meeting to establish soil compaction protocols and schedule soils technician. P Lammers, T Cooke, D Rapine, and N Raines (CDM) attended. It was determined to tentatively schedule the soil tech for 10/17/11 with the understanding to confirm with 48hrs notice. The road and parking sections will only be tested; 8" of 3" minus SG + 10" of AB. The SG will be tested when the 8" section is completed for the full road alignment and similarly for the 2 lifts of AB. Tasked with further definition of compaction testing protocol. 0853: Arrived onsite. Excavation operations continued as previously established with 3 crews. One crew relocated to the area east of Spur Rd to perform discrete area excavations, as staked. Another crew performed discrete excavations south and just west of Spur Rd, including trench drains. The 3rd crew continued excavating in the deeper sections of the southwest area. Soil sample collection in the southwest area indicated gross to high VCS, though they appear to be at or below the maximum 36" BFG depth. This was confirmed by the surveyor later in the day, reportedly J Ayala (USACE) directed the RC not to excavate farther. Backfill operations continued progressing south and west. Rain ponded on surface depressions and drained into lower lying depressions, including trench drains via swales. 10-wheel dump trucks delivered and end dumped Common Fill adjacent to subgrade. The quickly pushed the Fill into ~6" a lift with the 177 compactor following directly behind as a means to mitigate soil saturation. Surface soils appear firm with minimal rutting from truck traffic throughout the day. 1022: BC 422 arrived onsite. F Munroe (ER) cleared and grubbed the area to the west and behind the Search and Rescue building in advance of remediation when 1 of the aforementioned excavation crews completed the eastern area. 1218: Departed site. 1308: Returned to site. Spur Rd guardrail was unbolted form posts and placed adjacent to posts. 1405: 422 graded 1-1/2" washed rock on the north side of City Rd directly west of the boat ramp to mitigate non-construction related runoff. 1543: J Ayala arrived onsite. He confirmed the aforementioned 36" excavation limit. 1611: Updated sampling map and developed compaction testing protocol. 1705: Attended site close out meeting. K Davis (EID) stated islands and trench drains adjacent to proposed road alignment do not include a typical 4' gravel shoulder, and explained the south PL discrepancy. The former I will convey concern to N Raines (CDM) and the more conservative/current survey was used to establish PL, also he confirmed the site was tied to EID's 2010 coordinates as are the CDM and WGM designs. R Burton and J Steeper (PRI) agreed to compaction test the 8" 3" Minus section sub-base as single lift. 1802: Departed site.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		

Verbal instruction given to contractor: (Include names, reactions and remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-11-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/11/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input checked="" type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	48hrs
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ Acres	9	
Season DSA Limit	_____ Hectares	_____ Acres	9	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	5	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	4	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill sch'd next week.
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south fnc anchored and west fnc hay bales, tho no north barrier installed per EPA & USACE
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, has the Engineer been notified?				
Location:				
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-12-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 40's Overcast PM - 40's Overcast
<p>0803: Arrived onsite. Three excavation crews continued as previously establish; one in the southwest corner following concentrated lenses of high to gross VCS, another in the area east of Spur Rd, and the 3rd south of and adjacent to Spur Rd completed the trench drain. Began road construction with 3"Minus placement and compaction. 10-wheel dump trucks tail gated soil at City Rd EOP, pushed along alignment with dozer in ~6" lift, then compacted with 177 vibratory smooth-drum roller. 0822: Conducted post rain event SWPPP inspection. Site continues to be relatively level and a depression relative to off site adjacent grades, therefore no erosion nor sediment was observed. F Munroe (ER) and I observed excavation in the SW corner of pure product that appears to be below the maximum 36" depth BFG. 0833: D Repine (CDM) arrived onsite and we discussed the site's status, completing project related tasks, and site specific ROD requirements. 0908: The latest of the 3 crews relocated to the area behind the Search and Rescue (S&R) building excavating with a BC422. Their Case excavator was deconned in the EZ. 0947: N Raines (CDM) arrived onsite to discuss extending the road shoulder into the parking island at S&R and the down station depression. We also reviewed the varied south PL survey; EID's 2010 survey plan differs from their placed limits of construction. According to K Davis (EID) used EID's 1991 survey in their 2010 plan submitted to CDM and WGM, though opted to use JRS' survey pins to establish the PL in the field. Pin locations were confirmed by field measuring 100' offset from BNSF CL mainline rail. 1121: Departed site for office. 1241: Returned to site. Informed H Fowler (ER) of analytical results expanded fill area. Subsequently, crews placed construction fence at grade in the expanded area. The aforementioned deconned excavator was relocated to the S&R parking area to remove the triangular area east of the S&R parking area and west of the previously excavated road. C O'loughlin (CDM) collected soil samples and placed pin flags in the SW corner to locate high-gross VCS in advance of EID determining elevation relative 36" deep criterion. 1608: Excavation behind S&R completed and soil samples collected. 1717: Attended site close out meeting. Items discussed: J Ayala (USACE) requested EID locate sump in S&R parking area, City approval of oversized trench drains, and potential sub-base compaction testing due to significant 3" rock within matrix.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-12-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/12/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input checked="" type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	48hrs
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ 9 _____ Acres		
Season DSA Limit	_____ Hectares	_____ 9 _____ Acres		
Field Estimate of Non-Active DSAs	_____ Hectares	_____ 3 _____ Acres		
Field Estimate of Active DSAs	_____ Hectares	_____ 6 _____ Acres		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill sch'd next week.
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south fnc anchored and west fnc hay bales, tho no north barrier installed per EPA & USACE
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, has the Engineer been notified?				
Location:				
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-13-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 50's Partly Sunny
<p>0756: Arrived onsite. Two excavation crews in progress. One continuing in the southwest quadrant moving east and the other was removing the soil from the triangular area between the Search and Rescue (S&R) northwest corner parking area and the previously remediated area, adjacent to City Rd. The crew questioned the proposed depth because there was an apparent different in depth from original grade between the 2 adjacent areas. There were not any grade stakes, as in the other excavation areas, to indicate the proposed depth of excavation. The surveyor, K Davis (EID) was summoned and he determined the excavation was shallow and needed further excavation. C O'loughlin (CDM) was onsite to meet with K Davis and determine high to gross VV/LA in the southwest corner of site based on pin flags previously set.</p> <p>1018: Reportedly, due to previous excavation in the southwest area it was difficult to establish elevations. H Fowler (ER), C O'loughlin and J Sabo (CDM), and K Davis attended meeting. Subsequently, H Fowler directed K Davis and C O'loughlin to work directly with the excavation crew for C O'loughlin to visually locate and K Davis to determine elevation of high to gross VCS which the crew will remove any above the 36" depth BFG criterion.</p> <p>0941: Observed sub-base pumping under equipment and truck traffic along road alignment in the general area of pt. 2817. H Fowler stated they will continue to work it remove the apparent high moisture. If they are unable to stabilize the area they will remove the soil and replace with dry.</p> <p>1132: Departed site for office.</p> <p>1238: Returned to site and met AM Crites (CDM) to discuss 3"Minus material. There appears to be out of spec oversized cobbles and the material Proctor curve dry density appears low for the volume, ~50% of rock.</p> <p>1441: Updated sample plan.</p> <p>1326: Reviewed and approved project modifications: #3-Elevation Pt 410 adjusted, #4-Drainage sump changes, #5-Sump relocation, #6-Road section change, #7-Parking area section change, #8-Two conifers to remain in-place, #9-Staking elevation typo, and #10-Removal of 2 cottonwood trees.</p> <p>1511: N Raines (CDM) visited site to observe and discuss the low VV at 2 trees roots. There is question regarding leaving the low VV above the minimum 18" BFG criterion.</p> <p>1619: Excavation completed in the aforementioned triangular area. Notified C O'loughlin it was ready for sampling.</p> <p>1718: Attended site close out meeting. Items discussed: road is priority staking for subgrade to precede sampling, staking will include sampling point stake to contain road within polygons, replace silt fence after grade is reestablished, and barrier fence placed at grade within aforementioned triangular area.</p> <p>1808: Departed site.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and		

remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-13-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/13/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	48hrs
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ Acres	9	
Season DSA Limit	_____ Hectares	_____ Acres	9	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	3	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	6	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill sch'd next week.
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south fnc anchored and west fnc hay bales, tho no north barrier installed per EPA & USACE
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, has the Engineer been notified?				
Location:				
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-14-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 40's Overcast
<p>0751: Arrive onsite. One excavation crew removing soil adjacent to south PL at about mid-site. The excavator tracked west to scrape the surface, apparently in the area not completed yesterday, and tracked back to the 10-wheel dump truck parked at the west end of the lay-down and loaded the truck. One restoration crew received Common Fill, and 3"Minus and the dozer pushed the material from end dumped stockpiles to the fill areas. The vibratory smooth-drum roller followed behind compacting the just placed fill. Another restoration crew is placing orange barrier fence on grade in sampled areas with passing analytical results from yesterday. 0826: Discussed with K Davis (EID) yesterday's close out meeting request to place the sample point stakes closest to an along with the road alignment stakes. He stated he would be able to do both efficiently. 0949: H Fowler (ER) informed me that available import trucks were limited due to the prioritization of residential restoration at other locations; consequently the fill operation is progressing slower than previous days. Observed 3"Minus soil appears to contain less oversized material than observed yesterday. R Burton (PRI) informed me that PRI visited the vendor and observed the loader digging into the subgrade, the apparent source of the oversized rock. Notification to the vendor appears to have corrected the issue. 1034: Received revised compaction protocol document and called from N Raines (CDM) to discuss. 1105: J Steeber (PRI) visited site to review proposed modification #11-Add 4' wide shoulder to 2 landscaped areas adjacent to road near Search & Rescue. 1211: Departed site. 1304: Returned to site. Observed the road sub-base previously placed in area near pt.2817 and referenced in QAR 10/13/11 continues to pump apparently due to excessive moisture. J Bache (ER) called H Fowler and requested to place and compact a load of ¾" crushed into the unstable soil. H Fowler concurred. R Eby (ER) stated that previously installed silt fence needed replacement and departed site to retrieve. 1433: C O'loughlin (CDM) entered EZ to delineate sample locations in advance of assistance scheduled for ~1530. 1553: Performed SWPPP inspection. 1637: Observed the excavator waiting for trucks. H Fowler stated no further excavating today. 1707: Received verbal analytical results and RC backfilled excavation adjacent to City Rd. 1719: Attended site close out meeting. 1822: Backfill completed, departed site.</p> <p>(10/13/11 C O'loughlin (CDM) noticed petroleum aroma and observed apparent staining in the area of the deep depression, ~pt.196, containing high to gross VV. The referenced area is excavated to below the 36" minimum BFG.)</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and		

remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-14-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/14/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	48hrs
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ 9 _____ Acres		
Season DSA Limit	_____ Hectares	_____ 9 _____ Acres		
Field Estimate of Non-Active DSAs	_____ Hectares	_____ 3 _____ Acres		
Field Estimate of Active DSAs	_____ Hectares	_____ 6 _____ Acres		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill sch'd next week.
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south fnc anchored and west fnc hay bales, tho no north barrier installed per EPA & USACE
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, has the Engineer been notified?				
Location:				
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT – OU-1 Equipment Decon	DATE	10-14-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM – 30's - 40's, cloudy PM – 50's, cloudy
CQC Inspection phases attended and instruction given: 1645 - Inspected Hitachi trackhoe owned by United Rentals # for decon on 10-13-11. All inspection plates were removed to facilitate decon. No issues were observed. Air Filters and cab filter were removed today and the filter housings were cleaned with a wet rag. Filters were disposed of as ACM.		
Results of QA inspections and tests, deficiencies observed, 		
Verbal instruction given to contractor: (Include names, reactions and remarks) 		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. 		
Information, instructions or actions taken not covered on QCR report or disagreements: 		

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

10-14-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-15-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 40's Partly Sunny
<p>0753: Arrived onsite. Restoration crew, 1-Operator (dozer & skidsteer) and 1-Laborer (roller & plate) received Common Soil from 4 10-wheel end-dumps by pushing temporary stockpiles from and progressing the edge of fill southwest. Surveyors continued to place subgrade stakes in various locations throughout the site. 0933: Located JRS survey pin at the apparent SW property corner and paced from R/R Main Line CL. By pacing the pin appears to be ~10' north of the field PL. T Cook and D Repine (CDM) visited site and discussed OU1 construction schedule relative to construction season schedule, and the aforementioned survey concern. Recommended to discuss with R Burton (PRI) to request BNSF access to mainline for measuring purposes. 1106: Departed site for office. Discussed the aforementioned request with R Burton who in turn I request it of J Ayala (USACE). J Ayala was not available and requested D Repine to make request on my behalf. 1257: Returned to site. Backfill operations moved to area behind Search and Rescue building, placing common fill and compacting with walk-behind vibra-plate. 1321: Received analytical results for road area and conveyed to H Fowler. Requested K Davis (EID) to highlight all pt stakes within the overexcavated area, >36"BFG, to assure that sample #83 at 2% Tremolite/Actinolite was contained in this area and that it could receive backfill. 1427: Labor crew arrived to place barrier fence on grade in just accepted area. 1444: Updated sample plan. 1552: K Davis provided aforementioned overexcavated stake data. 1611: H Fowler informed me that the sump rim elevation was 1.5'BEG in Search and Rescue parking area. In order to construct and assure native soils have a min 18" cap it appears a significant section of the parking area will need to be removed. 1702: Departed site.</p>		
<p>(10/13/11 C O'loughlin (CDM)noticed petroleum aroma and observed apparent staining in the area of the deep depression, ~pt.196, containing high to gross VV. The referenced area is excavated to below the 36" minimum BFG.)</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and		

remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-15-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/15/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	48hrs
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ Acres	9	
Season DSA Limit	_____ Hectares	_____ Acres	9	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	3	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	6	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill continues
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south & west fnc temp removed for excavation
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			X	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	X			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	X			
Are all paved areas free of visible sediment tracking or other particulate matter?	X			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	X			
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		
If yes, has the Engineer been notified?				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT – OU-1 Equipment Decon	DATE	10-15-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM – 40's, cloudy PM – 50's, partly cloudy
CQC Inspection phases attended and instruction given: 1430 - Inspected Case trackhoe owned by Mid Mountain Machinery model # CX210B for decon. All inspection plates were removed to facilitate decon. No issues were observed. Air Filters and cab filter were removed. The filter housings were cleaned with a wet rag. Filters were disposed of as ACM.		
Results of QA inspections and tests, deficiencies observed, 		
Verbal instruction given to contractor: (Include names, reactions and remarks) 		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc. 		
Information, instructions or actions taken not covered on QCR report or disagreements: 		

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

10-15-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-17-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 40's Partly Sunny
<p>0752: Arrived onsite. One excavation crew continued a previously established and removing soil adjacent to south PL at approximately mid-site. One restoration crew continued as previously established and placing 3"Minus soil within the road footprint and common fill in other locations near the southwest site corner. 3"Minus soil appears to meet spec with few observed oversized >3" cobbles. 0941: J Steeber arrived onsite with Modification #11; replace Seed Restoration section with Road section for 4' wide shoulder within 2 areas abutting the road at ~Sta 04+50 and ~Sta 05+25. 1110: Received call from T Dodge (CDM) 10/14/11 analytical results indicate sample #106 was elevated at 2% Tremolite, therefore the polygon required overexcavation from the proposed 18"BFG. I called H Fowler (PRI) and informed him of the results. 1121: Researched backfill around trees alternatives in response to J Ayala's (USACE) email. Tree root zones along the west PL were observed at ~6"BFG, consequently the excavation was terminated beyond the root zone. Reportedly the arborist stated fill above OG would have deleterious effects on the tree and it was uncertain if the ROD would permit <18" cover within the site. My research resulted in the possible alternative of placing a root-barrier blanket over the roots followed by lightweight free-draining mulch. 1218: Departed site. 1256: Returned to site. 1308: H Fowler informed me J Ayala directed ER to excavate sample area #106 additional 18" to achieve maximum overexcavation. Excavation crew laid out visquene from the laydown road to sample area #106 for the 10-wheel dump trucks to drive on and began excavation. 1436: N Raines (CDM) onsite to observe project status. 1611: Excavator removed observed High VV in the trench drain at ~Sta. 11+50. 1511: Began 1 decon trailer demobilization and relocated the other to the north of City Rd. 1642: The 2 previously deconned excavators were relocated from the site interior to north of City Rd for off-haul. 1717: Attended site closeout meeting. Discussed completing removal east of Spur Rd, removing Spur Rd, and the related change in truck traffic. Disposal trucks will ingress and egress the site from Thomas Rd via BNSF ROW. The fill area adjacent to City Rd south embankment was questioned and determined PRI and EID would evaluate the grading plan.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-17-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/17/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	48hrs
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ 9 _____ Acres		
Season DSA Limit	_____ Hectares	_____ 9 _____ Acres		
Field Estimate of Non-Active DSAs	_____ Hectares	_____ 3 _____ Acres		
Field Estimate of Active DSAs	_____ Hectares	_____ 6 _____ Acres		

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill continues
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south & west fnc temp removed for excavation
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			X	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	X			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	X			
Are all paved areas free of visible sediment tracking or other particulate matter?	X			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	X			
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		
If yes, has the Engineer been notified?				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-18-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 40's Partly Sunny
<p>0811: Arrived onsite. Discussed restoration schedule with H Fowler (PRI) in particular the road sub-base and base. He stated that base material will only be constructed after all exposed subgrade is covered. It was determined that the road compaction to ~Sta 11+00 will be completed by 10/20/11 and no further road restoration work will be continued until later in the following week. He anticipates mid next week the earliest to accomplish subgrade cover before they return to road sub-base placement. Subsequently, he confirmed that sub-base compaction testing schedule was discussed in yesterday's closeout meet for 10/24/11 or 10/25/11, though 80-90% of sub-base will be completed 10/21/11. 0842: Excavator removing gate and guardrail posts along Spur Rd in advance of excavation. Ingress and egress to removal site is restricted to via Thomas Rd. 0914: Met with K Davis (EID) to discuss staking/grading along City Rd south embankment. I pointed out that the 1 cut stake pt #580 appears inaccurate. 1003: Met with J Steeber (PRI), and K Davis to review staking plan and agreed that discrete area needed further review. 1034: Met with K Davis he stated C Robertson (EID) would revise grading plan at City Rd south embankment based on coordinate points rather than pt data that appears in question. 1041: Began Spur Rd excavation. Restoration operations continue to progress with placing Chapman fill to achieve subgrade elevation and 3"Minus at the southwest corner intersection of City Rd and Spur Rd. Common Fill also being placed as general fill and 1 laborer placing fence barrier. 1214: Departed site. 1304: Returned to site. 1337: Ad hoc field meeting with R Burton (PRI), J Steeber, and H Fowler to discuss compaction testing schedule. As previously mentioned road sub-base construction will not scheduled to resume until later next week and R Burton stated that ¾"Minus Crushed Base is not expected to be available until late next. Therefore it was agreed to conduct compaction testing on the current available roadbed 10/21/11. 1404: J Hammond (Libby) joined the meeting and requested irrigation conduit placed under the Spur Rd replacement. J Steeber recommended 4"dia sch 40 casing to sleeve irrigation. 1414: N Raines (CDM) visited site and was updated with the above information. 1436: Called K Beaudoin (CDM) to schedule geotech compaction for 10/21/11 and inquire time estimate for ~1100' of road follow compaction protocol.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-18-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/18/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other _____ Daily _____			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	_____ Hectares	_____ Acres	9	
Season DSA Limit	_____ Hectares	_____ Acres	9	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	3	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	6	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill continues
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south & west fnc temp removed for excavation
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			X	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	X			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	X			
Are all paved areas free of visible sediment tracking or other particulate matter?	X			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	X			
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		
If yes, has the Engineer been notified?				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-19-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 40's Partly Sunny
<p>0758: Arrive onsite. Backfill operations in progress as previously established with one crew; 1-operator on dozer, and 1-laborer on smooth-drum compactor and Chapman delivering subgrade material, and Noble delivering Common Fill. The subgrade material appears drier than yesterday; with the 10/18/11 material continues to pump under load of empty 10-wheel dump trucks. 0815: Excavation crew completed the Spur Rd removal and relocated and began excavating the south rock trench at ~Sta 11+75. 1118: J Steeber (PRI) arrived onsite to inform me that an ad hoc site meeting initiated by M Cirian (EPA) and J Ayala (USACE) was about to begin; R Burton (PRI) also attended. The primary purpose of the meeting is to establish the areas adjacent to the south PL that are not excavated to depth where a minimum 18" of cover will be placed. It was determined by M Cirian from observation that the apparent westerly starting point is associated with pt #133. The easterly point will be determined by the surveyor. It was further determined that the 18" minimum depth will be projected from the #133 series row to the #99 series row to its south. The RC will place poly at grade as laydown for the 10-wheel dump trucks to travel on for loading. 1216: Departed site. 1255: Returned to site. RC placing poly to the north and adjacent to excavation at ~pt #137 to protect previously placed clean fill. 10-wheel dump trucks backed down, from west to east, on previously placed clean fill and excavation began ~pt 139. 1354: Called H Fowler (PRI) with recent analytical results, especially that #112A was 2%. H Fowler said ER will remove soil additional 18" to a total of >36"BFG. 1523: Met with R Burton and J Steeber to prepare preliminary SWPPP winterization plan. 1556: Spoke with K Davis (EID) who stated that the south property line excavation will extend to ~pt 113. Completed aforementioned westerly south property line excavation and relocated to begin easterly excavation from ~pt 140. 1623: Updated soil sample map. 1716: Attended site closeout meeting.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-19-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/19/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other <u> </u> Daily <u> </u>			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	<u> </u>	Hectares	<u> 9 </u>	Acres
Season DSA Limit	<u> </u>	Hectares	<u> 9 </u>	Acres
Field Estimate of Non-Active DSAs	<u> </u>	Hectares	<u> 3 </u>	Acres
Field Estimate of Active DSAs	<u> </u>	Hectares	<u> 6 </u>	Acres

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill continues
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south & west fnc temp removed for excavation
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			X	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	X			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	X			
Are all paved areas free of visible sediment tracking or other particulate matter?	X			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	X			
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		
If yes, has the Engineer been notified?				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-20-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 40's Partly Sunny
<p>0752: Arrived onsite. Backfill operations continued as previously established; receiving Common Fill, and Chapman subgrade material and raising grade along the south PL at approximately center site. 0818: Excavation operations began as previously established removing soil adjacent to the south property line to achieve minimum 18" BFG cover. 0823: Reviewed the remaining sample locations with C O'loughlin to develop exit strategy. It was determined to collect samples from the area east of and adjacent to sample area #111, and submit to the lab as rush high priority due it to #111 analysis of 2% Tremolite. Otherwise all areas yet to be sampled, other than in discrete southeast area of site ingress and egress, will be sampled today and analyzed as high priority. 0928: Updated sample map with yesterday's data. 1012: Met with C O'loughlin and N Raines (CDM) to review sample data map and related table for completeness and suitability to complete the yearly site closure report. Consensus of current status appeared suitable. 1109: Assisted in the aforementioned sample collection. 1216: Received call from R Burton (PRI) with request from Rebecca (EPA) to delineate the vertical and horizontal extent of the pure product VCS encountered at the south PL the previous days, i.e. the VCS is originating from BNSF ROW. I instructed C O'loughlin to return to cut wall and detail document his observations after soil collection was completed. 1244: Soil sample collection completed with 18 samples total. 1311: Removal crew completed excavation along south PL and relocated to the southeast corner. 1401: Received call that sample #127 analytical results is 5% Tremolite. I informed H Fowler (PRI) of aforementioned analytical results. 1522: R Burton (PRI) visited site trailer and we called Rebecca to further discuss the aforementioned BNSF contamination. Rebecca informed us that the EPA was pursuing with BNSF authorization to remedy the aforementioned contamination prior to ER off-hiring the excavator. She stated the attorneys were reviewing contractual requirements and language. 1423: Called D Repine (CDM) and informed of the 5% sample result and EPA/BNSF contractual negotiations. 1438: K Beaudoin (CDM) visited site and we reviewed the road compaction layout and schedule. 1547: Removal crew relocated to sample #127 area and prepared laydown for truck and excavation access. 1616: Called H Fowler regarding remaining sample areas adjacent to the southeast property corner. He stated no further sample collection was required until excavation activities are complete. 1715: Attended site closeout meeting. Discussed: 10/21/11 scheduled road compaction testing to begin at 0900; a profile sketch of the south PL excavation wall delineation and that it will be issue 10/21/11 am.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		

Verbal instruction given to contractor: (Include names, reactions and remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-20-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Michael Glaser			
Inspector's Title	TQA			
Signature				
Date of Inspection	10/20/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other <u> </u> Daily <u> </u>			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	<u> </u>	Hectares	<u> 9 </u>	Acres
Season DSA Limit	<u> </u>	Hectares	<u> 9 </u>	Acres
Field Estimate of Non-Active DSAs	<u> </u>	Hectares	<u> 3 </u>	Acres
Field Estimate of Active DSAs	<u> </u>	Hectares	<u> 6 </u>	Acres

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill continues
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south & west fnc temp removed for excavation
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Desilting Basins			X	
Are basins maintained to provide the required retention/detention?				
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?				
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?		x		
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		
If yes, has the Engineer been notified?				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-21-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 40's Partly Sunny
<p>(Original QAR lost due to failed electronic device and consequently unrecoverable, therefore this QAR is recreated from memory.)</p> <p>~0800: Arrived onsite. Excavation continued in Sample Location Description #127 to remove soils >36" due to the 1st clearance elevated analytical results. Restoration activities continued as previously established. Three fill materials; Chapman subgrade, 3"Minus, and Common Fill were delivered, placed, and compacted in planned locations. Fill operations were being conducted in the southern central site area. 0843: Forwarded PL/BNSF excavation wall profile depicting the observed pure product seeping from the BNSF property onto the site. ~1000: Reviewed analytical data and associated areas from previous day and observed that Sample Location Description #'s: 123, and 124 were larger than the prescribed 2500SF. Called N Raines (CDM) to inform of oversized areas and determination if re-sampling was required. ~1100: Excavation at #127 completed and the excavation crew relocated to southeast corner to complete the final excavation activities. ~1200: Departed site. ~1300: Returned to site. 1230: Received analytical results for yesterday's sampling. All results indicate acceptable limits for restoration. ~1715: Attended site closeout meeting. J Ayala (USACE) determined that the 2 aforementioned oversized areas require resizing and re-sampling into 2 areas each, i.e. 4 samples. ~1745: Began re-sampling the aforementioned areas, which included in portions, hand digging through previously placed fill material. P Lammers, N Raines, C O'loughlin (CDM), and R Burton (PRI) participated in the event. The following procedure was used when sampling within fill areas (~30% of the overall areas): Hand digging through the import was accomplished using a round nose shovel that when the barrier fence was observed the "clean" shovel was replaced with a trowel shovel to complete the hole. The barrier fence material was cut away with a utility knife and residual import soil was removed prior to collecting the confirmation soil sample. Barrier fence debris and import spoils were discarded into and onto exposed adjacent subgrade and not reused. Another smaller trowel shovel (typical sampling shovel) was used to sample the soil. RAWP established deconning procedures were strictly followed for each discrete 30-point composite sample. ~1900: Departed site.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-27-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT – OU-1	DATE	10-22-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM – 50's, cloudy PM – 50's, cloudy, some light rain
CQC Inspection phases attended and instruction given: 1300 – On site. 3 contractor workers have been on site installing orange barrier on the cleared surface at the east end of the property. H Fowler (PRI) on site with more materials and to check on progress. No other site activity taking place.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPPE 		
Verbal instruction given to contractor: (Include names, reactions and remarks) 		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

10-22-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-24-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 40's Partly Sunny
<p>0755: Arrived onsite. Excavation crew continued removal operation as previously established in the Southeast corner of site. Restoration crew continued to place common fill and resumed 3"minus placement and compaction in the road alignment. 0831: C O'loughlin (CDM) onsite placing perimeter air samplers and within decon trailer. Directed C O'loughlin to resample area "L" due to >2500SF. Reviewed the sampling plan and log for completeness and resolved some inconsistencies. 0951: Laborers continued to place orange barrier on subgrade in eastern portion of site. 1110: Excavation crew completed removal activities. Informed K Davis (EID) of completed excavation and the need to survey the subgrade elevation. 1211: Departed site. 1257: Returned to site. 1317: C O'loughlin and K Anderson (CDM) onsite to collect confirmation soil samples in southeast corner of site. Re-measured sample areas #24 and #88 east of the Search & Rescue parking area. The parking area was originally used as the excavation staging area causing measurement obstruction. The new measurement relocated the parking area eastern limit ~10' east. 1441: Restoration crew collected the city supplied 4"dia sch 40 pipe and installed as casing under the road. The casing was capped with duct tape and staked at both ends. 1722: Attended site closeout meeting. Discussed the following items: 1) Area at the southeast corner adjacent to existing power pole was not excavated to >36"BFG and therefore may require additional removal if confirmation soil sample analytical results are >1%, 2) J Steeber recommended to place 20mil HDPE at grade of power pole due to observed high VV, 3) Excavation adjacent to and south of the Search & Rescue building and parking area is schedule for 1-2 days.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-24-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-25-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 40's Partly Sunny
<p>0757: Arrived onsite. Restoration crew continuing to backfill as previously established. Three soil materials; Common Fill, 3"Minus, and Chapman subgrade are being delivered, stockpiled, pushed by dozer into discrete designated place, and vibratory rolled for compaction. Observed casings placed yesterday under roads at; ~Sta. 11+25 and ~50' Right of ~Sta. 12+00 within the parking area access road. 1024: Received resample analytical results with no further excavation required. Reviewed and revised sample map and log with updated information. 1142: J Sabo (CDM) onsite. He informed me that the Case excavator was decon inspected and ready for off-haul. Reviewed project status in advance of next week's handoff. 1154: Received analytical results for southeast corner samples, all of which are ND. 1209: Departed site. 1255: Returned to site. 1303: Called H Fowler (PRI) with aforementioned analytical results and likewise informed K Davis (EID). 1325: R Burton (PRI) arrived onsite and informed me that the 3"Minus material stockpile was exhausted. 1402:: M Kvapil (ER/QC) informed me that excavation crew would soon begin setup and excavation of narrow strip adjacent to and south of the Search & Rescue building ~40' long with anticipated completion at about 1515. 1409: Called C O'loughlin (CDM) and schedule him for 1530 to collect soil sample. 1413: Arrived at the excavation operation at the Search & Rescue when I was informed that they completed the excavation and deconned the excavator. I made my observations of the excavation wall. I observed Moderate VV in native soil excavation wall ~10"BFG at the east end, and that plastic sheeting, from the previously remediated parking area to the north, was exposed ~10"BFG and ~15' to the west. The plastic should be exposed at 18"min BFG at the native soil import soil subgrade interface and no native soil should be observed in the excavation wall above 18"BFG. 1418: N Raines (CDM) arrived onsite and he confirmed my aforementioned assessment. 1421: H Fowler arrived onsite, mobilized a 10-wheel dump truck, and excavation resumed 1444: D Repined (CDM) called for available soil status and informed him with the 3"Minus exhausted only Chapman subgrade and Common Fill soils are being delivered. 1447: Called A Crites and requested gradation data for failed ¾"Minus Crushed to be forwarded to K M-H, N Raines, and me to evaluate its use for subbase. 1451: Called K M-H (CDM) to expect the data for review. 1516: Observed excavation wall which appeared to meet the aforementioned visual clearance criteria. 1528: C O'loughlin arrived onsite to collect sample. 1544: Resumed sample plan review and revision. 1716: Attended site closeout meeting.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and		

remarks)

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-25-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-25-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM – 20's – 30's cloudy PM – 40's, partly cloudy
CQC Inspection phases attended and instruction given: 1100 – On site. 1130 – Inspected decon of Case trackhoe model # CX210B owned by Mid Mountain Machinery #R001186. All access plates and panels were removed to facilitate decon. Air filters and cab filter were removed and placed in a dirty bag marked identifying which machine they were removed from. Filter housings were cleaned wet rags. No issues observed. 1130 - Off site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

10-25-11

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-27-11
	CONTRACT NO.	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's Overcast PM - 40's Mostly Sunny
<p>0803: Arrived onsite. Restoration activities continue as previously established. Fill production is reduced due to only 2-4 10-wheel dump trucks hauling only Common Fill. Primary fill locations were along the eastern 1/3 of the south property line with fill placed along and against the south PL HDPE barrier. Also fill was placed and compacted along the west embankment of Spur Rd. 0844: J Bache (ER/OP) requested to remove grade stakes after the Common Fill grade is completed and before the top soil is placed. The expressed purpose was to eliminate the lathe holes. I spoke with K Davis (EID) and he stated EID would replace the lathe with stakes and rooster tails 50'OC. 0853: Departed site and met with J Hubbard (USACE) regarding aforementioned grade stake removal. 0911: Returned to site. Continued fill placement and compaction. 1044: Reviewed PRI's proposed SWPPP winterization plan. 1125: Departed site. Returned field equipment to CDM connex box. 1320: Returned to site. 1505: J Sabo (CDM) arrived onsite for further transition. 1517: Ad hoc site meeting conducted and attended by: J Hubbard, R Burton, J Steebbers, H Fowler (PRI), F Munroe (ER), and N Raines (CDM). The meeting agenda was Area 2 revetment. Apparently, the EPA was requesting Area 2 work to begin this construction season, so the site meeting was to develop scope based on access and material sizing. 1556: Meeting adjourned. 1715: Attended site closeout meeting.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

(Original 9/30/11) J Hubbard and J Steeber returned to site and I raised my concern that the removal activities created a safety concern of a severe drop off (~2') directly at City Rd south edge of pavement. I stated that K-rail/Jersey Barrrier type barriers were typically required for this application, but was told they are not available. In lieu of K-rail ER placed delineators with caution tape ~2' north from EOP.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

10-27-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-29-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM – 30's – 40's partly cloudy PM – 40's – 50's mostly sunny
CQC Inspection phases attended and instruction given: 0830 – On site. Crew onsite and begin to set up containment to remove additional soil from a detention basin approximately 200 ft east of the Search and Rescue building. Basin has not been draining and soil will be removed to improve percolation. Confirmation soil sample to be collected following excavation. Decision made yesterday to perform work by project management. Activities planned for rest of day is to construct the detention basins. 0945 - Excavation has been completed. Excavator bucket deconned over the excavated area. Informed crew sampling will have to wait until the remaining water either drains out or pumped into a tank and disposed of as contaminated water. 1030 – One detention basin has been completed. Filter fabric placed in the trench. Rock excavated out of a dump truck with a 435 Bobcat excavator and placed on the fabric. Common fill was placed on the sides as the rock was brought to grade reduce the amount of rock used. Surveyor checked final elevation and the basin was covered with fabric. Crew moved to another trench to repeat this process. J Hubbard (USACE) and J Steeber have been on site to check progress. Bobcat skid steer loader has been mobilized to assist placing fill around the rock and grade the area around the basins. 1150 – Off site. 1445 – On site. Crew continuing to construct the detention basins. 1630 – R Burton, H Fowler onsite and report Monday's activities to be completing the detention basins and placing fill over the orange barrier fence on the east side of the property. J Steeber has been on site all day assisting the installation of the basins. 1700 – Six basins have been constructed to the design elevation and the soil has been graded to facilitate drainage. Straw waddles have been placed and staked surrounding the fabric to prevent infiltration of silt. Off site.		
Results of QA inspections and tests, deficiencies observed, <div> <ul style="list-style-type: none"> • Crew using proper </div>		

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

10-29-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10-31-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM – 30's – 40's early showers , mostly cloudy PM – 40's – 50's partly cloudy
CQC Inspection phases attended and instruction given: 0900 – On site. Crew onsite (operator, laborer, surveyor). Placement and compaction of common fill (Noble) at the east end of the property and 3 inch minus on the road to the boat trailer parking lot has started. Detention basin excavated Saturday to improve drainage still has too much water to sample. 1110 – Off site. 1300 – On site. Placment and compacting fill on the road to the boat trailer parking lot continuing. J Bache (PRI) reports he will start using common fill to bring the subgrade to the elevation to start placing the 3 in minus. 1330 – Off site. 1530 – On site. M Cirien (EPA) on site. Observed the fence along City Service Rd has blown down. MC requested the HDPE liner along the RR property line be secured. H Fowler called to report issues. Placement and compaction of 3 in minus started on the west parking lot. 1610 – 3 Workers on site securing the safety fence. 1745 – Attended daily closeout meeting. Off site.		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		
Information, instructions or actions taken not covered on QCR report or disagreements:		

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

10-31-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	11-1-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM – 30's cloudy PM – 40's mostly sunny
CQC Inspection phases attended and instruction given: 0940 – On site. Crew 2 operators, 2 laborers, surveyor) on site continuing placement of common fill and 3 in minus on the barrier fence and boat ramp parking lot on the east end of the property. M Vinson (PRI) to show skid steer operator where to place topsoil around the trees on the west end and to cover small areas of the barrier fence that are still exposed on site. Laborer is trimming the HDPE liner place above finished grade along the RR property line. MV reports vendor is to be out of the 3 in minus material and common fill today and placement of crushed material on the road may be started. Water in the detention basin excavated on Saturday is being pump in to a grey water tank to be disposed of at the Landfill. 1030 – Off site. 1305 – On site. MV reports crushed material will be on placed on the road. 1350 – Crushed stone has been placed on the road in front of the Search and Rescue building to create access to the site. Observed some of the HDPE was still laying flat and requested to MV to have crew secure to the bank. Off site. 1620 – Silt fence has been installed along side of the HDPE and has secured liner in place against the wall of the excavation. Placement of topsoil has started around the trees. Observed placement of crushed material in 4 to 6 inch lifts. Venders are out of common fill and 2 in minus. Approximately 1 acre of barrier fence is left to cover on the east end. 1730 – Crushed has been placed and compacted on the road from City Service Rd to just past the 8+01 station. Attended daily closeout meeting. Off site		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

11-1-11

<div> <div> <div></div> <div></div> </div> <div> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY </div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	11-2-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 20's partly cloudy PM – 30's partly cloudy
CQC Inspection phases attended and instruction given: 0900 – On site. Crew 2 operators, 3 laborers, surveyor) on site continuing placement of crushed material on the road and topsoil around the trees. Installation of the detention basins to be resumed. 0930 – J Steeber reported crushed material may be used to cover the remaining barrier fence on the east side. 1000 K Anderson (CDM) on site to collect confirmation soil sample collected from the detention basin that was excavated on 10/29 to facilitate drainage. 1020 – Sample collected. KA off site. Installation of the basins has started. 1040 – Placement of crushed material on the barrier fence on the east end has started. Off site. 1400 – On site. Installing basins and placing crush material continuing. Placement and compaction of crush on the road has stopped at the 10+50 station. 1700 – Covering the barrier fence on the east side has been completed. 5 detention basins installed and straw waddles placed around to prevent infiltration of silt. The basin NW of the 6+50 station has been relocated slightly to protect tree roots and will be noted on the as built drawing. 1730 – Attended daily closeout meeting. Crew to work on the parking lots using crushed material, build up the road edge along City Service Rd, and continue winterizing the site. There is no common fill or 3 in minus available. Off site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> Crew using proper 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

11-2-11

<div> <div> <div></div> <div></div> </div> <div> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY </div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	11-3-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 20's partly cloudy PM – 30's partly cloudy
<div> CQC Inspection phases attended and instruction given: </div> <div> 1305 – On site. Crew (2 operators, 1 laborer,) on site. Work performed in the morning consisted of placement and compaction of 3/4/ crush on the back side of the Search and Rescue Bldg and building up the edge along City Service Rd. Informed J Bache (PRI) trash on site needs to be picked up and he said he would do so. 1335 – Off site. 1620 – On site. Placement of crush behind the Search and Rescue Bldg has been completed. Placement of crush in the parking area in front of the building has started. Fill has been placed at the bottom of the silt fence along the RR property to hold in place. Crew has picked up and disposed of trash on site. 1745 – Attended daily closeout meeting. Placement of crush in the parking areas to continue tomorrow. Off site. </div>		
<div> Results of QA inspections and tests, deficiencies observed, </div> <div> <ul style="list-style-type: none"> Crew using proper </div>		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
<div> Has anything developed on the work which might lead to a change order or finding of fact? </div> <div> No </div>		

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

11-3-11

<div> <div> <div></div> <div></div> </div> <div> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY </div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	11-4-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's cloudy PM - 30's cloudy, light snow
<div> CQC Inspection phases attended and instruction given: </div> <div> 1100 – On site. Crew (2 operators, 2 laborers) on site. Crew on site placing and compacting 3/4 crush material on the parking areas. Observed material placed and compacted in 4 to 6 in lifts.1115 – Project management on site to determine if Saturday work will be necessary. Decision made to work if vendor can supply more haul trucks. 1145 – Off site. 1650 – On site. Placement of 3/4 crush has continued in the parking areas and in front of the Search and Rescue Bldg. Concrete blocks have set by the fire hydrant for protection. Crew has secured the silt fence on the west side of the property. 1745 – Attended daily closeout meeting. Crew to continue placing crush tomorrow. Off site </div>		
<div> Results of QA inspections and tests, deficiencies observed, </div> <div> <ul style="list-style-type: none"> Crew using proper </div>		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
<div> Has anything developed on the work which might lead to a change order or finding of fact? </div> <div> No </div>		

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

11-4-11

Storm Water Quality Construction Site Inspection Checklist

GENERAL INFORMATION				
Project Name	PROJECT - OU-1			
Contract N°	W912DQ-08-D-0018 DKO1 UASCE Task Order No. DKO1			
Contractor	Project Resources Inc - PRI / HFS			
Inspector's Name	Jim Sabo			
Inspector's Title	TQA			
Signature				
Date of Inspection	11/4/11			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain <input type="checkbox"/> After a rain event <input type="checkbox"/> 24-hr intervals during extended rain <input checked="" type="checkbox"/> Other <u> </u> Daily <u> </u>			
Season (Check Applicable)	Fall			
Storm Data	Storm Start Date & Time:	Periodic Light Rain	Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS				
Total Project Area	<u> </u>	Hectares	<u> 9 </u>	Acres
Season DSA Limit	<u> </u>	Hectares	<u> 9 </u>	Acres
Field Estimate of Non-Active DSAs	<u> </u>	Hectares	<u> 3 </u>	Acres
Field Estimate of Active DSAs	<u> </u>	Hectares	<u> 6 </u>	Acres

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?			x	
Location:				
Location:				
Location:				
Location:				
Temporary Soil Stabilization				
Does the applied temporary soil stabilization provide 100% coverage for the required areas?	x			
Are any non-vegetated areas that may require temporary soil stabilization?		x		Backfill continues
Is the area where temporary soil stabilization required free from visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Temporary Linear Sediment Barriers				
Are temporary linear sediment barriers properly installed in accordance with the details, functional and maintained?	x			North eliminated per EPA, south & west fnc temp removed for excavation
Are temporary linear sediment barriers free of accumulated litter?	x			
Is the built-up sediment less than 1/3 the height of the barrier?	x			
Are cross barriers installed where necessary and properly spaced?			x	
Are fiber rolls installed and maintained on required slopes in accordance with the details, functional and maintained?			x	
Location:				
Location:				
Location:				
Location:				
Location:				
Storm Drain Inlet Protection			X	
Are storm drain inlets internal to the project properly protected with either Type 1, 2 or 3 inlet protection?				
Are storm drain inlet protection devices in working order and being properly maintained?				
Location:				
Location:				
Location:				
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Desilting Basins				
Are basins maintained to provide the required retention/detention?	x			
Are basin controls (inlets, outlets, diversions, weirs, spillways, and racks) in working order?	x			
Location:				
Location:				
Location:				
Location:				
Stockpiles			x	
Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?				
Are stockpiles protected from run-on, run-off from adjacent areas and from winds?				
Are stockpiles located at least 15 m from concentrated flows, downstream drainage courses and storm drain inlets?				
Are required covers and/or perimeter controls in place?				
Location:				
Location:				
Location:				
Location:				
Concentrated Flows				
Are concentrated flow paths free of visible erosion?	x			
Location:				
Location:				
Location:				
Location:				
Tracking Control				
Are points of ingress/egress to public/private roads inspected, swept, and vacuumed daily?	x			
Are all paved areas free of visible sediment tracking or other particulate matter?	x			
Location:				
Location:				
Location:				
Location:				
Wind Erosion Control				
Is dust control implemented in conformance with the Standard Specifications?	x			
Location:				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Dewatering Operations			x	
Is dewatering handled in conformance with the dewatering permit?				
Is required treatment provided for dewatering effluent?				
Location:				
Location:				
Location:				
Location:				
Vehicle & Equipment Fueling, Cleaning, and Maintenance				
Are vehicle and equipment fueling, cleaning and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious material?	x			
Are vehicle and equipment fueling, cleaning and maintenance activities performed on an impermeable surface in dedicated areas?		x		
If no, are drip pans used?		x		
Are dedicated fueling, cleaning, and maintenance areas located at least 15 m away from downstream drainage facilities and watercourses, and protected from run-on and runoff?	x			
Is wash water contained for infiltration/ evaporation and disposed of outside the highway right of way?	x			
Is on-site cleaning limited to washing with water (no soap, soaps substitutes, solvents, or steam)?	x			
On each day of use, are vehicles and equipment inspected for leaks and if necessary, repaired?	x			
Location:				
Location:				
Location:				
Location:				
Waste Management & Materials Pollution Control				
Are material storage areas and washout areas protected from run-on and runoff, and located at least 15 m from concentrated flows and downstream drainage facilities?	x			
Are all material handling and storage areas clean; organized; free of spills, leaks, or any other deleterious material; and stocked with appropriate clean-up supplies?	x			
Are liquid materials, hazardous materials, and hazardous wastes stored in temporary containment facilities?		x		
Are bagged and boxed materials stored on pallets?			x	
Are hazardous materials and wastes stored in appropriate, labeled containers?			x	
Are proper storage, clean-up, and spill-reporting procedures for hazardous materials and wastes posted in open, conspicuous and accessible locations adjacent to storage areas?			x	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Are temporary containment facilities free of spills and rainwater?	x			
Are temporary containment facilities and bagged/boxed materials covered?			x	
Are temporary concrete washout facilities designated and being used?			x	
Are temporary concrete washout facilities functional for receiving and containing concrete waste and are concrete residues prevented from entering the drainage system?			X	
Do temporary concrete washout facilities provide sufficient volume and freeboard for planned concrete operations?			X	
Are the temporary concrete washout facilities' PVC liners free from punctures and holes?			X	
Are concrete wastes, including residues from cutting and grinding, contained and disposed of off-site or in concrete washout facilities?			X	
Are spills from mobile equipment fueling and maintenance properly contained and cleaned up?			X	
Is the site free of litter?	X			
Are trash receptacles provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods?	X			
Is litter from work areas within the construction limits of the project site collected and placed in watertight dumpsters?	X			
Are waste management receptacles free of leaks?	X			
Are the contents of waste management receptacles properly protected from contact with storm water or from being dislodged by winds?	X			
Are waste management receptacles filled at or beyond capacity?		X		
Location:				
Location:				
Location:				
Location:				
Temporary Water Body Crossing or Encroachment			x	
Are temporary water body crossings and encroachments constructed as shown on the plans or as approved by the engineer?				
Does the project conform to the requirements of the 404 permit?				
Location:				
Location:				
Location:				
Location:				
Illicit Connection/Illegal Discharge Detection and Reporting				
Is there any evidence of illicit discharges or illegal dumping on the project site?		x		
If yes, has the Engineer been notified?				
Location:				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Location:				
Location:				
Location:				
Discharge Points				
Are discharge points and discharge flows free from noticeable pollutants?			x	
Are discharge points free of any significant erosion or sediment transport?			x	
Location:				
Location:				
Location:				
Location:				
WPCP/SWPPP Update				
Do the SWPPP, Project Schedule/Water Pollution Control Schedule and WPCDs adequately reflect the current site conditions and contractor operations?		x		
Are all BMPs installed in the proper location(s) and according to the details for the plan?		x		
Location:				
Location:				
Location:				
Location:				
General				
Are there any other potential water pollution control concerns at the site?		x		
Location:				
Location:				
Location:				
Location:				
Storm Water Monitoring				
Does storm water discharge directly to an water body listed as impaired for sediment/sedimentation or turbidity in the General Construction Activity Permit?		x		
If yes, were samples for sediment/sedimentation or turbidity collected pursuant to the sampling and analysis plan, if required, during rain events?				
Were there any BMPs not properly implemented, or breaches, malfunctions, leakages or spills observed, which could result in the discharge of pollutants to surface waters that would not be visually detectable in storm water?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Were soil amendments (e.g., gypsum) used on the project?		x		
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				
Did storm water contact stored materials or waste and resulted in a discharge from the construction site? (Materials not in watertight containers, etc.)			x	
If yes, were samples for non-visually detectable pollutants collected pursuant to the sampling and analysis plan during rain events?				

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	11-5-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's cloudy PM - 40's partly cloudy
CQC Inspection phases attended and instruction given: 0800 – On site. Crew (2 operators, 2 roller operators, flag person) on site continuing to place and compact 3/4 crush in the parking areas and road to the boat ramp parking area. 0830 – Observed the trucks are tracking mud on to City Service Rd. Requested J Bache (PRI) to place some crush on the muddy common fill where the trucks are traveling. Informed M Vinson, H Fowler (PRI) who reported all water trucks have been taken out of service and will try and find one. 1000 – Informed J Steeber (PRI) and J Ayala (USACE) of issue. Trucks are still traveling through muddy fill and the road is getting worse. 1015 – MV reports Noble water truck should be on site shortly. 1040 – JS and JA have been on site to check progress. 1100 – Noble water truck onsite and begins washing the road. Tank was filled at the city pump. 1150 – Off site. 1345 – On site. Filling the parking area in front of the Search and Rescue building has been completed. 1500 – Off site. 1600 – On site. 1700 – Placement 3/4 crush has been extended from the 10+50 station to the toe of the Spur Rd. The low area at the SE corner has been filled and straw bales have been placed to prevent release of silt. Good progress has been made placing fill at the east end of the property.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper • Flag person and road signs used on Hwy 37. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

11-5-11

<div> <div> <div></div> <div></div> </div> <div> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY </div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	11-7-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 20's partly cloudy PM - 30's cloudy
CQC Inspection phases attended and instruction given: 0830 – On site. Crew (2 operators, 2 roller operators, flag person, surveyor) on site continuing to place and compact 3/4 crush in the parking areas and road to the boat ramp parking area. 0845 – Reported to N Raines (CDM) that the material was being placed on a frozen surface. NR to check with PRI and USACE on issue. M Vinson (PRI) on site and reported issue to J Steeber (PRI). 0900 – NR reports contractor to attempt to break the frozen surface with the dozer before placing any more fill. 0900 – JS on site and directed dozer operator to break the surface with the blade. Ground found to be frozen 4 – 6 and breaking of the fill was stopped. JS directs crew to place the material being delivered on areas that receive topsoil. 0940 – NR reports earth work to stop for now. Placing fill over areas that receive topsoil may resume later. MV reports crew to finish placement of the fill that has been delivered and will begin work on installing the snow fence, grade and roll the site. 1020 – Off site. 1530 – On site. Crew has leveled fill and rolled the site. Fence in front of the Search and Rescue building has been moved out (to the east) to allow more parking. M Vinson has reported crew will place common fill tomorrow. Walk site with MV and J Bache (PRI) to inspect areas fill will be placed. 1700 – Off site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> Crew using proper Flag person and road signs used on Hwy 37. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

11-7-11

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1

DATE

11-8-11

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
Project Resources Inc - PRI / HFS

AM - 30's cloudy with snow showers
PM - 40's cloudy

CQC Inspection phases attended and instruction given:

0815 – On site. Crew (2 operators, 2 roller operators, flag person, surveyor) have started placement of common fill in areas that receive topsoil. Snow causing muddy condition and trucks are tracking mud on to City Service Rd. John Steeber (PRI) on site monitoring situation. 0845 – JS reports work will stop due to the muddy condition. Fill that has been delivered will be leveled and rolled. N Raines and K Mainhauzen (CDM) on site to inspect site and observe progress. 0915 – NR off site. 1045 – Inspected rip rap along the river bank with KR. Crew has started cleaning equipment for demob. 1300 – On site. Crew preparing office trailer for removal from site. Suggest to J Steeber some crushed material might be spread in the parking area in front of the pavilion to cover the silt that has been washed off the road. JS said he would have crew place some material. 1500 – Attended meeting relating to the work to be performed along the river bank with EPA, USACE, PRI, and CDM. Offsite.

Results of QA inspections and tests, deficiencies observed,

- Crew using proper
- Flag person and road signs used on Hwy 37.

Verbal instruction given to contractor: (Include names, reactions and remarks)

**Has anything developed on the work which might lead to a change order or
finding of fact?**

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

11-8-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	11-14-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM - 30's cloudy, snow showers PM - 30's cloudy, snow showers
CQC Inspection phases attended and instruction given: 1445 – Onsite. 3 workers have been on site installing a second ring of straw waddles around the detention basins. Straw waddles have also been placed at various locations in the swales. 1500 – Crew is off site. .		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

11-14-11

<div> <div> <div></div> <div></div> </div> <div> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY </div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	11-16-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM -10's partly cloudy PM - 20's cloudy
<div> CQC Inspection phases attended and instruction given: </div> <div> 1310 – Onsite. 3 workers on site replacing the safety fence along City Service Rd and Hwy 37 with snow fence. 6 foot plastic pipe has been placed over the fence posts approximately every 75 feet and painted red so that the fence is visible to snow plows and traffic. 1410 – Inspected the erosion and sediment controls that have been implemented. A short section of silt fence that is installed from the spur to the Search and Rescue Building has been knocked down by deer. J Bache (PRI) reports he will repair the section. All other silt fence is intact. Filter fabric has been installed over the detention basins and 2 rings of straw waddles have been placed around their perimeter. Straw waddles have also been installed in the swales where needed to minimize erosion. Observed positive drainage on to the site along City Service Rd. Silt fence and straw bales have been placed at NW and SW corners of the site to prevent any release of sediment. Off site. </div>		
<div> Results of QA inspections and tests, deficiencies observed, </div> <div> <ul style="list-style-type: none"> Crew using proper PPE </div>		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or		

finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

11-16-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	11-17-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM -20's cloudy, 4-6 inches snow overnight PM - 30's cloudy
CQC Inspection phases attended and instruction given: 1315 – Onsite. 3 workers on site completing the removal of safety fence along City Service Rd and Mt Hwy 37 with snow fence. Repairs to the safety fence along the RR property line have been made. 1345 – Off site. .		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE 		
Verbal instruction given to contractor: (Include names, reactions and remarks) 		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant,		

material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

11-17-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	11-23-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM -20's cloudy,
CQC Inspection phases attended and instruction given: 1100 Onsite with Jim Sabo to complete week site inspection. Site conditions: 6 inches of snow covering entire site. Snow and slit fence intact. No visible sighs of water entering or exiting site. 1130 Offsite. .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) 		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
Damon Repine	11-23- 11		



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1

DATE

12-2-11

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
Project Resources Inc - PRI / HFS

Weather Clear and Mid 30's

CQC Inspection phases attended and instruction given:

1600 onsite, No significant change in f condition to report out on since last inspection on 11-23-11.
Snow still covering entire site with approximately 4 inches.

Results of QA inspections and tests, deficiencies observed,

NA

Verbal instruction given to contractor: (Include names, reactions and remarks)

**Has anything developed on the work which might lead to a change order or
finding of fact?**

No

**Information on progress of work causes for delays and extent of delays, weather, plant,
material, etc.**

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
Damon Repine	12-02-11		

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	12-7-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM -20's cloudy,
CQC Inspection phases attended and instruction given: 1025 Onsite to perform weekly TQA inspection of site. 2-4 inches of snow blanketing whole site. All perimeter fences are in good order. No signs of unauthorized entry to the site. Photos taken of the site from three different locations. No evidence of water leaving the site. 1045 offsite. .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

12-7-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	12-14-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		1345 Low 30's clear skies
CQC Inspection phases attended and instruction given: 1345 Onsite to perform weekly storm water quality inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1415 Offsite .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

12-14-11

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Damon Repine

Date of Inspection: 12-14-11

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site: 1345

Time Off-site: 1415

Description of site condition: Snow covering approximately 90% of the site at a depth of 2 inches.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (☒) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: None

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☒)

Comments: Walked perimeter of site no evidence of water infiltrating or leaving the site.

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Comments: None

Notes: Pictures taken of current site conditions

Signature:

Date: 12-14-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	12-15-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		1345 Low 30's clear skies
<p>CQC Inspection phases attended and instruction given:</p> <p>1300 The fence on the east side of highway 37 located on Thomas Street was down due to deer activity. I communicated this to H Fowler of PRI-ER that the fence was down. At 1430 received a call from M Vinson. PRI-ER stating that the fence has been restored.</p> <p>.</p>		
<p>Results of QA inspections and tests, deficiencies observed,</p> <p>NA</p>		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p> <p>NA</p>		
<p>Has anything developed on the work which might lead to a change order or finding of fact?</p> <p>No</p>		
<p>Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.</p>		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

12-15-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	12-21-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM weather 28 degrees and clear skies
CQC Inspection phases attended and instruction given: 1100 Onsite to perform weekly storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. Offsite at 1130 .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

12-21-11

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Damon Repine

Date of Inspection: 12-21-11

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site:

Time Off-site:

Description of site condition: Over the night the first precipitation has fallen since last inspection on 12-14-11, totally accumulation of about an ½ inch. Snow covering entire site at a depth of approximately 2inches. Walked site to look for any changed condition from previous inspection.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (☒) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: None

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☒)

Comments: Walked perimeter of site no evidence of water infiltrating or leaving the site.

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Comments: None

Notes: Pictures taken of current site conditions

Signature:

Date: 12-21-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	12-28-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM weather 34 degrees and raining
<p>CQC Inspection phases attended and instruction given:</p> <p>1100 Onsite to perform weekly storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. Sometime over the night high winds blow off caution tape that was located on top of the north perimeter fence. Relayed this information to J Ayala (USACE) by phone. He asked if I would removal all caution tape that was damaged during the wind storm and not to replace the caution tape on top of the perimeter snow fences. 1220 offsite</p>		
<p>Results of QA inspections and tests, deficiencies observed,</p> <p>NA</p>		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p> <p>NA</p>		
<p>Has anything developed on the work which might lead to a change order or finding of fact?</p> <p>No</p>		
<p>Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.</p>		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
Damon Repine	12-28-11		

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Damon Repine

Date of Inspection: 12-28-11

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site: 1100

Time Off-site: 1220

Description of site condition: Snow covering approximately 90 percent of the site with water pooling in low laying areas. The rain started sometime before 0700 and continues through inspection. The total amount of rain fall is about 0.35 inches at 1330.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (☒) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: Caution tape removed from perimeter fence were it was damaged by the wind, USACE direction not to replace the caution tape.

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☒)

Comments: Walked perimeter of site no evidence of water infiltrating or leaving the site.

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Comments: None

Notes: Pictures taken of current site conditions

Signature:

Date: 12-28-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	12-29-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM weather 42 degrees moderate winds out of the southwest and clear
CQC Inspection phases attended and instruction given: 100 Onsite to perform weekly storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

12-29-11

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Damon Repine

Date of Inspection: 12-29-11

Weekly() Pre-Storm() Post-Storm(x)

Time On-site: 1000

Time Off-site: 1045

Description of site condition: Snow covering approximately 75 percent of the site with increase water pooling in low laying areas since yesterdays inspection. The total amount of rain fall is about 1.00 inches since the start of the storm.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (x) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No(x)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: Remaining caution tape on north and south perimeter fences was damage by high winds last night and will have to be removed.

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes(x) No (x)

Comments: Walked perimeter of site and water is entering site on south fence along the railroad tracks approximately 60 yards from the south west corner(attached photo #23). In the South west corner of the site water is pooling against straw bails and working it way around the left side of the bails, additional bails should be placed to stop water from traveling around impoundment(attached photo #19). South perimeter water is engaging the silt fence at a height of 2 inches in two areas(photos #14,18). Additional straw bails are recommended to placed in these areas. The area in front of pavilion(photo#1) may have silt fence installed if any additional water pools in this area. The drop between the road and this area is less then 2 inches. Southeast corner may also need additional bails added to the existing ones(photo # 28)

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No(X)

Comments: All waddles are currently under water.

Notes: Pictures taken of current site conditions

Signature:

Date: 12-29-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	12-30-11
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM weather 34 degrees cloudy skies
CQC Inspection phases attended and instruction given: 1200 Onsite to perform post storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1245 Offsite .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

12-30-11

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Damon Repine

Date of Inspection: 12-30-11

Weekly() Pre-Storm() Post-Storm(x)

Time On-site: 1200

Time Off-site: 1245

Description of site condition: Snow covering the site at 90 percent at a depth of 4 inches. The remaining areas are covered with standing water from depth ranging from 2 to 14 inches in drainage basins. Standing water located on the west perimeter fence has resided from the previous inspection(photos # 4&5) Water has stopped entering the site on the south perimeter fence.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (x) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No(x)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes(x) No ()

Comments: Additional straw bails were added in both the southwest and south east corners(photos # 8&10) .

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No(X)

Comments: All waddles are currently under water.

Notes: Pictures taken of current site conditions

Signature:

Date: 12-30-11

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	01-04-12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM weather 34 degrees cloudy skies
CQC Inspection phases attended and instruction given: 1040 On site to perform post storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1100 Off site .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

01-04-12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Damon Repine

Date of Inspection: 01-04-12

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site: 1040 Time Off-site: 1100

Description of site condition: Snow covering the site at 90 percent at a depth of 4 inches. Water has receded over the majority of the site, standing water present along the western fence and both the northwest and southeast corners.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (☒) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: none

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☒)

Comments: none

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Comments: none

Notes: Pictures taken of current site conditions

Signature:

Date: 01-04-012

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	01-11-12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM weather 24 degrees clear skies
CQC Inspection phases attended and instruction given: 1345 On site to perform post storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1400 Off site .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

01-11-12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Damon Repine

Date of Inspection: 01-11-12

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site: 1345

Time Off-site: 1400

Description of site condition: A layer of ice snow mix is covering the site at approximately 75% at depth of 2 inches. Catch basins on the west side remain full of water with ice on the surface. No storm events since last inspection on 01-04-12. No evidence of water entering or leaving the site.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (☒) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: none

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☒)

Comments: none

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Comments: none

Notes: Pictures taken of current site conditions

Signature:

Date: 01-11-12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	01-18-12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		AM weather 18 degrees light snow falling
CQC Inspection phases attended and instruction given: 1120 On site to perform post storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1145 Off site .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

01-18-12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Damon Repine

Date of Inspection: 01-18-12

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site: 1120

Time Off-site: 1145

Description of site condition: Snow covering entire site at a depth of approximately 5 inches. No evidence of unauthorized entries or water entering and existing the site. All perimeter and silt fences in place.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (x) No(☐)

Inspection of Perimeter Fence: Yes(x) No(☐)

Is the fence intact? Yes (x) No(☐)

Were repairs made? Yes(☐) No(x)

Are the snow plow flags in place and visible? Yes(x) No(☐)

Comments: none

Inspection of Silt Fence: Yes(x) No(☐)

Is the fence intact? Yes (x) No(☐)

Were repairs made? Yes(☐) No (X)

Comments: none

Inspections of Waddles and Filter Fabric: Yes(x) No(☐)

Are waddles intact? Yes(x) No(☐)

Were repairs made? Yes(☐) No(X)

Comments: none

Notes: Pictures taken of current site conditions

Signature:

Date: 01-18-12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	01-26-12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		PM weather 34 degrees F light rain overcast.
CQC Inspection phases attended and instruction given: 1210 K. Beaudoin (CDM Smith) on site to perform post storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1240 Off site .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Kris Beaudoin

01-26-12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Kris Beaudoin

Date of Inspection: 01-26-12

Weekly(☒) Pre-Storm(☐) Post-Storm(☒)

Time On-site: 1210 Time Off-site: 1240

Description of site condition: Snow and ice covering entire site at a depth of approximately 8-12 inches. No evidence of unauthorized entries or water entering and existing the site. All perimeter and silt fences in place.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (☒) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: none

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☒)

Comments: Snow has drifted over the silt fence on the southern end of the site. Fence remains intact.

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☐) No(☐) NA

Were repairs made? Yes(☐) No(☒)

Comments: All waddles are burried in snow and ice. Straw bails remain intact

Notes: Pictures taken of current site conditions

Signature:

Date: 01-26-12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	01-30-12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		PM weather 37 degrees F light rain overcast.
CQC Inspection phases attended and instruction given: 1322 K. Beaudoin (CDM Smith) on site to perform post storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1345 Off site .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Kris Beaudoin

01-30-12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Kris Beaudoin

Date of Inspection: 01-30-12

Weekly() Pre-Storm() Post-Storm(x)

Time On-site: 1322 Time Off-site: 1345

Description of site condition: Snow and ice covering entire site at a depth of approximately 3-5 inches. Snow is coving ~1-6" of water and slush. Slush is being contained in the low areas of the site. No evidence of unauthorized entries or water entering and existing the site. All perimeter and silt fences in place.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (x) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No(x)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No (X)

Comments: Snow has drifted over the silt fence on the southern end of the site. Fence remains intact.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No() NA

Were repairs made? Yes() No(X)

Comments: All waddles are burried in snow and ice and appear to be intact. Straw bails remain intact

Notes: Pictures taken of current site conditions

Signature:

Date: 01-30-12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	01-31-12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		PM weather 35 Degrees F. Partly sunny.
CQC Inspection phases attended and instruction given: 1323 K. Beaudoin (CDM Smith) on site to perform post storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1340 Off site .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Kris Beaudoin

01-31-12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Kris Beaudoin

Date of Inspection: 01-31-12

Weekly() Pre-Storm() Post-Storm(x)

Time On-site: 1323 Time Off-site: 1340

Description of site condition: Snow and ice covering entire site at a depth of approximately 3-5 inches. Snow is coving ~1-6" of water and slush. Slush is being contained in the low areas of the site. No evidence of unauthorized entries or water entering and existing the site. All perimeter and silt fences in place.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (x) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No(x)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No (X)

Comments: Snow has drifted over the silt fence on the southern end of the site. Fence remains intact.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No(X)

Comments: Some of the waddles are burried in snow and ice and appear to be intact. Visible waddles are intact. Straw bails remain intact

Notes: Pictures taken of current site conditions

Signature:

Date: 01-31-12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	02-08-12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		PM weather 22 Degrees F. Partly sunny.
CQC Inspection phases attended and instruction given: 1350 On site to perform post storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1410 Off site .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

02-08-12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Damon Repine

Date of Inspection: 02-08-12

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site: 1350 Time Off-site: 1410

Description of site condition: Snow and ice covering entire site at a depth of approximately 3-5 inches. No evidence of unauthorized entries or water entering and existing the site. All perimeter and silt fences in place.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (☒) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: none

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☒)

Comments: Snow has drifted over the silt fence on the southern end of the site. Fence remains intact.

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Comments: Some of the waddles are burried in snow and ice and appear to be intact. Visible waddles are intact. Straw bails remain intact

Notes: Pictures taken of current site conditions

Signature:

Date: 02-08-12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	02-01512
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / HFS		PM weather: 29 Degrees F. Mostly cloudy
CQC Inspection phases attended and instruction given: 1353 K. Beaudoin (CDM Smith) On site to perform post storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1414 Off site .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Kris Beaudoin

02-15-12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Kris Beaudoin

Date of Inspection: 02-15-12

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site: 1353 Time Off-site: 1414

Description of site condition: Snow and ice covering entire site at a depth of approximately 3-5 inches. No evidence of unauthorized entries or water entering and existing the site. All perimeter and silt fences in place.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (☒) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: none

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☒)

Comments: Fence remains intact.

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Comments: Some of the waddles are buried in snow and ice and appear to be intact. Visible waddles are intact. Straw bails remain intact

Notes: Pictures taken of current site conditions

Signature:

Date: 02-1512

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	02-01512
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) PRI-ER		PM weather: 42 Degrees F. Mostly cloudy
CQC Inspection phases attended and instruction given: 1300 K. Beaudoin (CDM Smith) On site to perform post storm water pollution prevention plan inspection. Finding of inspection are documented on the attached Libby Asbestos Project Operable Unit 1 Inspection form. Photographs collected of current site conditions. 1325 Off site .		
Results of QA inspections and tests, deficiencies observed, NA		
Verbal instruction given to contractor: (Include names, reactions and remarks) NA		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Damon Repine

02-21-12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Damon Repine

Date of Inspection: 02-21-12

Weekly() Pre-Storm() Post-Storm(x)

Time On-site: 1300

Time Off-site: 1324

Description of site condition: Snow and ice covering entire site at a depth of approximately 2-4 inches. Rain started falling around 0700 and stopped around 1230, total precipitation for the day was approximately 0.15 inches. No evidence of unauthorized entries or water entering and existing the site. PRI-ER started staging rip rap onsite for use on the river banks in the future.

Office Trailer Checked? Trailer has been taken offsite

Complete perimeter inspection completed? Yes (x) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No(x)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No (X)

Comments: Fence remains intact.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No(X)

Comments: Some of the waddles are buried in snow and ice and appear to be intact. Visible waddles are intact. Straw bails remain intact

Notes: Pictures taken of current site conditions

Signature:

Date: 02-21-12

THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION ACTIVITIES	TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF THE NEXT DAY'S WORK	
	PROPERTY ADDRESS:	OU1 303 W Thomas St
PROJECT: Libby Asbestos Site, Libby, MT	GEOUNIT	8013
	PROPERTY ID:	AD-000062
THIRD PARTY INDEPEDNENT CONTRACTOR: CDM Smith Federal Programs Corporation	REPORT DATE:	2/28/2012
	CONTRACT NUMBER:	W912DQ-08-D-0018 DK01 USACE Task Order No. 032
REMOVAL CONTRACTOR: PRI/ER	Weather AM:	20 Degrees F. Overcast
	Weather PM:	35 Degrees F. Partly cloudy. Hazy
GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 3.0		
ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED
Staging and Pre-Construction Set-Up	10	Interior Clearance BD# : NA
Exterior Removal	0	
Expansion of Removal Area	NA	Exterior Clearance NA
Exterior Clearance	NA	Personnel Air Monitoring NA
Exterior Backfill	NA	
Exterior Restoration	NA	
Interior Design-Build BD#:	NA	Perimeter Air Monitoring NA
Interior Containment BD#:	NA	Clean Room Sampling NA
Interior Bulk Removal BD#:	NA	
Interior Detail Cleaning BD#:	NA	
Interior Encapsulation BD#:	NA	
Interior Blocking BD#:	NA	
Interior Spot Cleaning BD#:	NA	
Interior Clearance BD#::	NA	(CONCRETE / POLY?)
Interior Restoration BD#:	NA	
Interior Capping BD#:	NA	
SAFETY: (Include Observances and any Infractions of Approved Safety Plan (i.e., PPE), Safety Manual or Instructions from Government Personnel. Specify Corrective Action Taken.) No H/S infractions were observed today.		
COMMENTS PERTAINING TO CONTRACTOR'S ACTIVITIES Note Times With Each Comment (Results of QA Inspections / Tests / Deficiencies Observed / Actions Taken / Corrective Actions Taken by the Contractor / Disagreements with Contractor / Verbal Instructions to Contractors (Include Personnel) / Direction from Government Personnel)		
<u>Interior Activities</u> NA		

THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION ACTIVITIES		TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF THE NEXT DAY'S WORK	
PROJECT: Libby Asbestos Site, Libby, MT		PROPERTY ADDRESS:	OU1 303 W Thomas St
		GEOUNIT	8013
		PROPERTY ID:	AD-000062
		REPORT DATE:	2/28/2012
THIRD PARTY INDEPEDNENT CONTRACTOR: CDM Smith Federal Programs Corporation		CONTRACT NUMBER:	W912DQ-08-D-0018 DK01 USACE Task Order No. 032
COMMENTS PERTAINING TO CONTRACTOR'S ACTIVITIES CONT. <i>Note Times With Each Comment</i>			
<u>Excavation /Restoration Activities</u> <p> 0755 T. Vanderweel (CDM Smith) on site. 0800 Attended a pre construction meeting outlining the agenda for Rip Rap phase 1. This meeting was attended by approximately 26 people. The EPA, USACE, City of Libby, Davis Surveyors, PRI/ER and CDM Smith were represented at this meeting. R. Burton, PRI/ER conducted the meeting with D. Repine, CDM Smith interjecting with some H/S concerns. Site hazards were discussed(overhead utility, cold weather, the river, life vests within 25 feet of the river, equipment, traffic control, rescue boat). Utilities have been marked. 0845 Walked part of the site with D. Repine, T. Cook, and N. Raines, all of CDM Smith talking about the job. Movies were taken during this time as a camera was not available. 0900 offsite. 0938 onsite to take photos from across the river. 1004 onsite the work side of the river. Photos being taken of the jobsite. PRI/ER has an excavator working near the Hwy 37 bridge. He is grubbing the area of brush to start building a road leading to the east portion of the job. Material is going to be laid on top of the soil once the brush and snow are removed from the area to the east of the gate. A picnic table was destroyed trying to move it from the area that is being cleared. 1020 Off site. 1057 On site. Another picnic table was destroyed trying to move it. A hose broke on the 315D excavator. PRI/ER had spill kits onsite which were promptly used to soak up the hydraulic oil. The leak was repaired quickly. Road material was then used to cover the stained area so it would not be tracked to different areas. Road material continues to be laid down forming a road that goes from the gate to the east. 1200 lunch. 1220 off site. 1301 On site. PRI/ER has started moving Rip Rap from the south side of City Service Road to the north side where they are staging it for future placement. 1341 Two excavators are grubbing brush and trees from the area east of the pump house. Trees are being cut down with a chainsaw. 1405 Trees continue to be removed and brush is being cleared. The brush and trees are being removed from the site by dump trucks. RIP RAP continues to be shuttled to the north side of City Service Road. PRI/ER is staging the D100 rock for the toe of the slope. 1630 Close out meeting attended by R. Burton, H. Fowler, PRI/ER, Ken, from Davis Surveyors, and N. Raines, D. Repine, and T. Vanderweel, CDM Smith. 1700 off site. </p>			
Are Correct Wetting and Tarping Procedures Being Utilized? YES () NO () NA Structure was presoaked prior to demo. Demolition area are being soaked from the ground and from above. ER is presoaking removal areas. Excavation areas are being sprayed. Tailgates were being sprayed off.			
Have Situations Developed at the Site Which Might Lead to Significant Deviations from the Removal Design? (Please Note Additional Work Required) YES () NO (x)			
Change Order Form Signed by Property's Owner? YES () NO (X) City of Libby needs to sign change Information on Causes for Delay and Extent of Delays (i.e. Weather, Equipment Inoperability, etc.) NA			
ITEMS DAMAGED DURING CONSTRUCTION ACTIVITIES: (Photo Document and Include any Corrective Actions Taken.) Two picnic tables and a Bar-B-Q			
DELIVERABLES SUBMITTED TO PRI? YES () NO (x)		LIST DELIVERABLES:	
REMARKS: (Include Visitors to Project Site and any Other Miscellaneous Comments) Flathead Electric was onsite today to drop a power line so as not to interfere with an excavation area in the future. Davis Surveyors had 3 workers on the site today doing a utility drawing and doing topo's of the bank that had not been done.			
INSPECTOR'S SIGNATURE		PRINTED NAME	DATE
		Tom Vanderweel	2/28/2012

THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION ACTIVITIES	TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF THE NEXT DAY'S WORK	
	PROPERTY ADDRESS:	OU1 303 W Thomas St
PROJECT: Libby Asbestos Site, Libby, MT	GEOUNIT	8013
	PROPERTY ID:	AD-002957
THIRD PARTY INDEPEDNENT CONTRACTOR: CDM Smith Federal Programs Corporation	REPORT DATE:	2/29/2012
	CONTRACT NUMBER:	W9128F-11-D-0023
REMOVAL CONTRACTOR: PRI/ER	Weather AM:	23 Degrees F. Snow
	Weather PM:	35 Degrees F. Snow Showers.
GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 3.0		
ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED
Staging and Pre-Construction Set-Up	15	Interior Clearance BD# : NA
Exterior Removal	0	
Expansion of Removal Area	NA	Exterior Clearance
Exterior Clearance	NA	
Exterior Backfill	NA	Personnel Air Monitoring
Exterior Restoration	NA	
Interior Design-Build BD#:	NA	Perimeter Air Monitoring
Interior Containment BD#:	NA	
Interior Bulk Removal BD#:	NA	Clean Room Sampling
Interior Detail Cleaning BD#:	NA	
Interior Encapsulation BD#:	NA	
Interior Blocking BD#:	NA	
Interior Spot Cleaning BD#:	NA	
Interior Clearance BD#::	NA	
Interior Restoration BD#:	NA	
Interior Capping BD#:	NA	
SAFETY: (Include Observances and any Infractions of Approved Safety Plan (i.e., PPE), Safety Manual or Instructions from Government Personnel. Specify Corrective Action Taken.)		
No H/S infractions observed today. The excavator incident today showed how seriously PRI/ER takes safety. Reactions were swift and commendable. The traffic control plan seems to be verbal as of today.		
COMMENTS PERTAINING TO CONTRACTOR'S ACTIVITIES Note Times With Each Comment (Results of QA Inspections / Tests / Deficiencies Observed / Actions Taken / Corrective Actions Taken by the Contractor / Disagreements with Contractor / Verbal Instructions to Contractors (Include Personnel) / Direction from Government Personnel)		
<u>Interior Activities</u>		
NA		

THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION ACTIVITIES		TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF THE NEXT DAY'S WORK	
PROJECT: Libby Asbestos Site, Libby, MT		PROPERTY ADDRESS:	OU1 303 W Thomas St
		GEOUNIT	8013
		PROPERTY ID:	AD-002957
		REPORT DATE:	2/29/2012
THIRD PARTY INDEPENDENT CONTRACTOR: CDM Smith Federal Programs Corporation		CONTRACT NUMBER:	W9128F-11-D-0023
COMMENTS PERTAINING TO CONTRACTOR'S ACTIVITIES CONT. <i>Note Times With Each Comment</i>			
<u>Excavation /Restoration Activities</u> <p> 0700 T. Vanderweel (CDM Smith) on site at PRI/ER office for am safety meeting. 0715 Meeting over, off site. 0808 On site. Phone company is here re marking UG lines. Waiting for the cable co to mark the fiber optic line. The rescue boat is being put into the water after the motor was installed. 0830 Talked to H. Fowler, D. Biggs, F. Munroe, T. Breiland, and the truck driver, D. Whitmarsh, all of PRI/ER about the toe rock material being between D-85 and D-100. I also stressed the 3 to 1 ratio of the material and some slabs needing to be broken. 0915 Contacted N. Raines concerning the rock finger that exists upriver of the boat launch closest to the pavilion. This finger is to stay. 0920 off site to purchase a broom to remove snow from the boat ramp in order to photo existing cracks in the concrete. (as requested by USACE) 0938 photos taken at the end of the boat ramp. 1115 Another truck without a tailgate has been put into the rotation hauling Rip Rap across City Service Road to feed the excavator building the toe. Now two trucks are hauling Rip Rap. 1124 An excavator continues grubbing brush and trees from under the bridge and surrounding areas. 1150 Lunch. 1218 Off site. 1310 On site. 1321 Performed the weekly and pre storm inspection of the construction area north of City Service Road. Entire fence line was walked and photos were taken. Advised D. Repine, CDM Smith, and H. Fowler, PRI/ER, that a portion of the fence was knocked down due to the animals making their own access. 1400 Finished with the SWPPP inspection. 1405 During the course of a second excavator positioning itself to begin placing Rip Rap east of the down river boat ramp an incident occurred. The excavator began slipping towards the river. A quick thinking operator stopped the slide by positioning the tracks a certain way and planted the bucket in front of the machine stopping it's movement toward the river. PRI/ER reacted quickly in moving another machine toward the imperiled machine and sending an employee to retrieve more life vests since the incident moved the operator to within 25 feet of the river. A vest was supplied to the rescue operator in case he also would be slipping toward the river. Proper sized slings were called for and delivered to the job site within minutes allowing the second excavator to connect to the one closest to the river and pulling it to safety. After the incident the ground was chewed up in the slippery area by the excavator so it could travel the area safely without slipping. Rip Rap placement continued. 1430 R. Burton, PRI/ER questioned me about contamination in the area where the excavator chewed up the ground to keep from slipping. N. Raines, CDM Smith, checked on previous excavations in that area and informed me that contamination may remain from 2-3 feet below ground surface. The digging in the area did not seem to go below 1 foot. 1541 I informed T. Moe, PRI/ER's QC, and H. Fowler about the depth of possible contamination in the excavated area. Photos taken from other side of the river of the Rip Rap placement. 1630 close out meeting. I asked the attendees to clarify where the Rip Rap joins the up river portion of the boat ramp being worked on today. 1730 Off site. </p>			
Are Correct Wetting and Tarping Procedures Being Utilized?		YES () NO () NA	
Have Situations Developed at the Site Which Might Lead to Significant Deviations from the Removal Design? (Please Note Additional Work Required) YES () NO (x)			
Change Order Form Signed by Property's Owner? YES () NO () UNKNOWN			
Information on Causes for Delay and Extent of Delays (i.e. Weather, Equipment Inoperability, etc.) There is a winter storm today that the contractor is working through.			
ITEMS DAMAGED DURING CONSTRUCTION ACTIVITIES: (Photo Document and Include any Corrective Actions Taken.) City Service Road was marred a bit today due to the emergency moving of the excavator with cleats needing to cross the road quickly.			
DELIVERABLES SUBMITTED TO PRI? YES () NO (x)		LIST DELIVERABLES:	
REMARKS: (Include Visitors to Project Site and any Other Miscellaneous Comments) NA			
INSPECTOR'S SIGNATURE		PRINTED NAME	DATE
		Tom Vanderweel	2/29/2012

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: Tom Vanderweel

Date of Inspection: 02-29-12

Weekly(☒) Pre-Storm(☐) Post-Storm(☐) During Storm (☒)

Time On-site: 1321 Time Off-site: 1400

Description of site condition: Snow and ice covering entire site at a depth of approximately 6-8 inches. Snow started falling during the night and continues today. No evidence of unauthorized entries or water entering or exiting the site. PRI-ER is moving rip rap from the south side of City Service Road to the north side of City Service Road. The temperature today ranged from 22 degrees to 35 degrees with no real melting.

Office Trailer Checked? Trailer is on site with power hooked up.

Complete perimeter inspection completed? Yes (☒) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☐) No(☒) D. Repine and H. Fowler notified.

Were repairs made? Yes(☐) No(☒)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: Fence remains mostly intact. Animals have made another access for themselves.

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☒)

Comments: none

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☒)

Comments: Most of the waddles are buried in snow and ice and appear to be intact. Visible waddles are intact. Straw bales remain intact.

Notes: Pictures taken of current site conditions

Signature:

Date: 02-29-12

THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION ACTIVITIES	TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF THE NEXT DAY'S WORK	
	PROPERTY ADDRESS:	OU1 303 W Thomas St
PROJECT: Libby Asbestos Site, Libby, MT	GEOUNIT	8013
	PROPERTY ID:	AD-002957
THIRD PARTY INDEPEDNENT CONTRACTOR: CDM Smith Federal Programs Corporation	REPORT DATE:	3/1/2012
	CONTRACT NUMBER:	W9128F-11-D-0023
REMOVAL CONTRACTOR: PRI/ER	Weather AM:	25 Degrees F. Partly cloudy
	Weather PM:	39 Degrees F. Partly cloudy and a snow shower.
GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 3.0		
ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED
Staging and Pre-Construction Set-Up	28	Interior Clearance BD# : NA
Exterior Removal	0	
Expansion of Removal Area	NA	Exterior Clearance
Exterior Clearance	NA	
Exterior Backfill	NA	Personnel Air Monitoring
Exterior Restoration	NA	
Interior Design-Build BD#:	NA	Perimeter Air Monitoring
Interior Containment BD#:	NA	
Interior Bulk Removal BD#:	NA	Clean Room Sampling
Interior Detail Cleaning BD#:	NA	
Interior Encapsulation BD#:	NA	
Interior Blocking BD#:	NA	
Interior Spot Cleaning BD#:	NA	
Interior Clearance BD#::	NA	
Interior Restoration BD#:	NA	
Interior Capping BD#:	NA	(CONCRETE / POLY?)
SAFETY: (Include Observances and any Infractions of Approved Safety Plan (i.e., PPE), Safety Manual or Instructions from Government Personnel. Specify Corrective Action Taken.)		
No H/S infractions observed today. All visitors and workers are wearing life vests anywhere near the river.		
COMMENTS PERTAINING TO CONTRACTOR'S ACTIVITIES Note Times With Each Comment (Results of QA Inspections / Tests / Deficiencies Observed / Actions Taken / Corrective Actions Taken by the Contractor / Disagreements with Contractor / Verbal Instructions to Contractors (Include Personnel) / Direction from Government Personnel)		
<u>Interior Activities</u>		
NA		

THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION ACTIVITIES		TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF THE NEXT DAY'S WORK	
PROJECT: Libby Asbestos Site, Libby, MT		PROPERTY ADDRESS:	OU1 303 W Thomas St
		GEOUNIT	8013
		PROPERTY ID:	AD-002957
		REPORT DATE:	3/1/2012
THIRD PARTY INDEPENDENT CONTRACTOR: CDM Smith Federal Programs Corporation		CONTRACT NUMBER:	W9128F-11-D-0023
COMMENTS PERTAINING TO CONTRACTOR'S ACTIVITIES CONT. <i>Note Times With Each Comment</i>			
<u>Excavation /Restoration Activities</u> <p> 0700 T. Vanderweel (CDM Smith) on site at PRI/ER office for am safety meeting. 0718 Meeting over, off site. 0922 On site. Rescue boat is in the water and ready. Rip Rap placement at the west side of the down river boat ramp is finished. H. Fowler and T. Breiland, both PRI/ER and I had a meeting at the waters edge going over where and how the toe transition will be done on the east side of the down river boat ramp. We reiterated the need to leave the rock finger alone. 1029 Two excavators are moving Rip Rap at the river. One is actually building the toe. An excavator continues loading Rip Rap into two trucks which are shuttling it across the road. The ground is being chewed up very well where trucks and machinery are approaching the river from above to stage Rip Rap. Boulders have been placed as a stop where trucks are dumping on an angle. 1047 H. Fowler informed me that after lunch the second machine on the river side of the job is going to start building the toe to the east of the upriver boat ramp. W. Vincient, PRI/ER will be the operator. T. Breiland is the operator building the toe between boat ramps and the toe work that was done yesterday. 1109 The switch was done now, before lunch. D. Biggs, PRI/ER is now sizing and loading Rip Rap into the two trucks. 1123 Off Site. 1221 On site. 1230 J. Ayala, USACE on site checking progress of job. 1300 R. Burton and M. Fahland, PRI/ER on site checking job progress. The second excavator is helping the other excavator between the two boat ramps instead of working east of the upriver boat ramp. 1357 Off site. 1459 On site across the river to photo progress of the Rip Rap placement. 1526 On Site at OU1. The second excavator is now working on the east side of the upriver boat ramp. 1659 The afternoon close out meeting is over. Topics discussed were moving the toe from a minimum 10 feet towards and into the water to starting the toe at the water and moving towards the bank. Portions of the bank are to steep and need to be cut down to a maximum 2 to 1 slope. Trees and brush need to be cut off near grade. 1708 Off Site. </p>			
Are Correct Wetting and Tarping Procedures Being Utilized?		YES () NO () NA	
Have Situations Developed at the Site Which Might Lead to Significant Deviations from the Removal Design? (Please Note Additional Work Required) YES () NO (x)			
Change Order Form Signed by Property's Owner? YES () NO () UNKNOWN			
Information on Causes for Delay and Extent of Delays (i.e. Weather, Equipment Inoperability, etc.)			
ITEMS DAMAGED DURING CONSTRUCTION ACTIVITIES: (Photo Document and Include any Corrective Actions Taken.) NA			
DELIVERABLES SUBMITTED TO PRI? YES () NO (x)		LIST DELIVERABLES:	
REMARKS: (Include Visitors to Project Site and any Other Miscellaneous Comments) M. Cirian, EPA.			
INSPECTOR'S SIGNATURE		PRINTED NAME	DATE
		Tom Vanderweel	3/1/2012

THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION ACTIVITIES	TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF THE NEXT DAY'S WORK	
	PROPERTY ADDRESS: GEOUNIT: PROPERTY ID: REPORT DATE: CONTRACT NUMBER:	OU1 303 W Thomas St 8013 AD-002957 3/2/2012 W9128F-11-D-0023
PROJECT: Libby Asbestos Site, Libby, MT		
THIRD PARTY INDEPEDNENT CONTRACTOR: CDM Smith Federal Programs Corporation		
REMOVAL CONTRACTOR: PRI/ER	Weather AM:	28 Degrees F. Partly cloudy
	Weather PM:	45 Degrees F. Partly cloudy
GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 3.0		
ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED
Staging and Pre-Construction Set-Up	33	Interior Clearance BD# : NA
Exterior Removal	0	
Expansion of Removal Area	NA	Exterior Clearance
Exterior Clearance	NA	
Exterior Backfill	NA	Personnel Air Monitoring
Exterior Restoration	NA	
Interior Design-Build BD#:	NA	Perimeter Air Monitoring
Interior Containment BD#:	NA	
Interior Bulk Removal BD#:	NA	Clean Room Sampling
Interior Detail Cleaning BD#:	NA	
Interior Encapsulation BD#:	NA	
Interior Blocking BD#:	NA	
Interior Spot Cleaning BD#:	NA	
Interior Clearance BD#::	NA	
Interior Restoration BD#:	NA	
Interior Capping BD#:	NA	
SAFETY: (Include Observances and any infractions of Approved Safety Plan (i.e., PPE), Safety Manual or Instructions from Government Personnel. Specify Corrective Action Taken.)		
No H/S infractions observed today. PRI/ER's QC showed me the traffic control plan today. A small gas leak was observed from the motor of the rescue boat. There was no release beyond the boat. H. Fowler had D. Benefield take care of this immediately. The leak was stopped and the gas in the boat absorbed.		
COMMENTS PERTAINING TO CONTRACTOR'S ACTIVITIES Note Times With Each Comment (Results of QA Inspections / Tests / Deficiencies Observed / Actions Taken / Corrective Actions Taken by the Contractor / Disagreements with Contractor / Verbal Instructions to Contractors (Include Personnel) / Direction from Government Personnel)		
<u>Interior Activities</u>		
NA		

THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION ACTIVITIES		TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF THE NEXT DAY'S WORK	
PROJECT: Libby Asbestos Site, Libby, MT		PROPERTY ADDRESS:	OU1 303 W Thomas St
		GEOUNIT	8013
		PROPERTY ID:	AD-002957
		REPORT DATE:	3/2/2012
THIRD PARTY INDEPENDENT CONTRACTOR: CDM Smith Federal Programs Corporation		CONTRACT NUMBER:	W9128F-11-D-0023
COMMENTS PERTAINING TO CONTRACTOR'S ACTIVITIES CONT. <i>Note Times With Each Comment</i>			
<p> 0700 T. Vanderweel (CDM Smith) on site at PRI/ER office for am safety meeting. 0715 Meeting over, off site. 0833 On site. Rescue boat is in the water and ready. Davis Surveying is here to re-mark benchmarks for the beginning of the toe from the upstream boat ramp and upriver. The surveyor gave me the elevation of a set point on a light pole for future reference. That point is 2068.8. Three excavators continue working. Two are building the Rip Rap toe and one is loading two dump trucks to shuttle the Rip Rap across the road. Lay down material is being delivered and stockpiled to the east of the gate. Chains have been removed from the one dump truck that had them on. Workers have grubbed a bit more in the area between the pump house and boat ramp 1. All trees have been removed but not cut to grade. Some brush remains. Photos taken. 1114 The grubbed area has been cleared more. Orange fencing has been laid down and Rip Rap is being dumped and placed in the area east of the boat ramp towards the pump house. A road is being built just east of the pump house from the top of the bank down to the river and then going up river. This road is to keep the equipment clean as the toe is built from the pump house and going upstream from there. Photos taken. 1132 The toe between the two boat ramps is close to being done. Photos were taken from the bridge spanning the Kootenai from different vantage points. 1155 Lunch. 1319 On Site. Rip Rap toe placement between boat ramps is done. 1426 On other side of the river for photos. 1453 Off Site. 1457 On Site. Question H. Fowler about a gap in the construction area east of the pump house. Talked to H. Fowler about boulders larger than D-100 being used. 1536 Called N. Raines for clarification of the gap in construction. I was told that it was okay to tie into the grouted Rip Rap that exists around the pump house. 1630 Close out meeting. J. Ayala, USACE was told about transitioning the toe into the grouted Rip Rap around the pump house and we are going to wait until R. Thomas is here next week to make a final decision. 1645 meeting over. The Rip Rap supply from the south side of City Service Road is exhausted. Noble has a supply which is going to be delivered starting on Monday, 3-5-2012. PRI/ER and the USACE are working on another supply for Rip Rap now that the Wolf Creek supply is shut down from road closures. 1702 Off Site. </p>			
Are Correct Wetting and Tarping Procedures Being Utilized?		YES () NO () NA	
Have Situations Developed at the Site Which Might Lead to Significant Deviations from the Removal Design? (Please Note Additional Work Required) YES () NO (x)			
Change Order Form Signed by Property's Owner? YES () NO () UNKNOWN			
Information on Causes for Delay and Extent of Delays (i.e. Weather, Equipment Inoperability, etc.)			
NA			
ITEMS DAMAGED DURING CONSTRUCTION ACTIVITIES: (Photo Document and Include any Corrective Actions Taken.)			
Cracks were observed in the boat ramp, #1, (closest to pumphouse). They appear to be fresh.			
DELIVERABLES SUBMITTED TO PRI? YES () NO (x)		LIST DELIVERABLES:	
REMARKS: (Include Visitors to Project Site and any Other Miscellaneous Comments)			
M. Cirian, EPA was here with a reporter. R. Burton, PRI/ER, T. Cook, CDM Smith, J. Ayala, USACE			
INSPECTOR'S SIGNATURE		PRINTED NAME	DATE
		Tom Vanderweel	3/2/2012

THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION ACTIVITIES	TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF THE NEXT DAY'S WORK	
	PROPERTY ADDRESS:	OU1 303 W Thomas St
PROJECT: Libby Asbestos Site, Libby, MT	GEOUNIT	8013
	PROPERTY ID:	AD-002957
THIRD PARTY INDEPEDNENT CONTRACTOR: CDM Smith Federal Programs Corporation	REPORT DATE:	3/5/2012
	CONTRACT NUMBER:	W9128F-11-D-0023
REMOVAL CONTRACTOR: PRI/ER	Weather AM:	41 Degrees F. Rain
	Weather PM:	43 Degrees F. Rain
GUIDANCE DOCUMENT GOVERNING REMOVAL: RAWP Revision 3.0		
ACTIVITY	PERCENT COMPLETE AT END OF DAY	SAMPLES COLLECTED
Staging and Pre-Construction Set-Up	31	Interior Clearance BD# : NA
Exterior Removal	0	
Expansion of Removal Area	NA	Exterior Clearance
Exterior Clearance	NA	
Exterior Backfill	NA	Personnel Air Monitoring
Exterior Restoration	NA	
Interior Design-Build BD#:	NA	Perimeter Air Monitoring
Interior Containment BD#:	NA	
Interior Bulk Removal BD#:	NA	Clean Room Sampling
Interior Detail Cleaning BD#:	NA	
Interior Encapsulation BD#:	NA	
Interior Blocking BD#:	NA	
Interior Spot Cleaning BD#:	NA	
Interior Clearance BD#::	NA	
Interior Restoration BD#:	NA	
Interior Capping BD#:	NA	
SAFETY: (Include Observances and any Infractions of Approved Safety Plan (i.e., PPE), Safety Manual or Instructions from Government Personnel. Specify Corrective Action Taken.)		
No H/S infractions observed today. Rescue boat was taken out to assure operation capability.		
COMMENTS PERTAINING TO CONTRACTOR'S ACTIVITIES Note Times With Each Comment (Results of QA Inspections / Tests / Deficiencies Observed / Actions Taken / Corrective Actions Taken by the Contractor / Disagreements with Contractor / Verbal Instructions to Contractors (Include Personnel) / Direction from Government Personnel)		
<u>Interior Activities</u>		
NA		

THIRD PARTY QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION ACTIVITIES		TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF THE NEXT DAY'S WORK	
PROJECT: Libby Asbestos Site, Libby, MT		PROPERTY ADDRESS:	OU1 303 W Thomas St
		GEOUNIT	8013
		PROPERTY ID:	AD-002957
		REPORT DATE:	3/5/2012
THIRD PARTY INDEPENDENT CONTRACTOR: CDM Smith Federal Programs Corporation		CONTRACT NUMBER:	W9128F-11-D-0023
COMMENTS PERTAINING TO CONTRACTOR'S ACTIVITIES CONT. <i>Note Times With Each Comment</i>			
<p> 0700 T. Vanderweel, and J. Sabo (CDM Smith) on site at PRI/ER office for am safety meeting. 0715 Meeting over, off site. 0922 On site. Rescue boat is in the water and ready. Noble is delivering Rip Rap to the site today and dumping directly on top of the bank where it is being placed by PRI/ER's excavator. The toe continues being built by an excavator working at the waters edge. Fence matting has been laid down and Rip Rap is being placed over it to mark where contamination remains. Photos taken. A backhoe was brought here today to spread some washed rock in the driveway area where the Rip Rap trucks are running to minimize the mud being tracked onto the road. Washed rock was also used to fill a very large pothole that has been full of water for the last few days. 1155 T. Cook and N. Raines, CDM Smith onsite to check the progress of the job. 1210 Cook and Raines offsite. 1210 Lunch. 1300 Rip Rap delivery and placement resumes. 1430 J. Ayala, USACE onsite checking progress. Informed us that two more loads of Rip Rap will exhaust the supply from Nobles. 1507 Last load of Rip Rap has been delivered. The road going back to the dumping area is very sloppy but not into native soil. 1540 Off site. 1615 On Site. Photo the work that has been done with the remaining Rip Rap. 1630 Close out meeting. No work to be done tomorrow. Waiting on a Rip Rap supply. 1700 meeting is over. 1705 Workers have installed BMP's to control silt to the river. SWPPP done today on the south side of City Service Road. Water in the two low corners is being filtered as designed. Photos taken. 1715 Off Site. </p>			
Are Correct Wetting and Tarping Procedures Being Utilized? YES () NO () NA			
Have Situations Developed at the Site Which Might Lead to Significant Deviations from the Removal Design? (Please Note Additional Work Required) YES () NO (x)			
Change Order Form Signed by Property's Owner? YES () NO () UNKNOWN			
Information on Causes for Delay and Extent of Delays (i.e. Weather, Equipment Inoperability, etc.)			
Shortage of Rip Rap.			
ITEMS DAMAGED DURING CONSTRUCTION ACTIVITIES: (Photo Document and Include any Corrective Actions Taken.)			
NA			
DELIVERABLES SUBMITTED TO PRI? YES () NO (x)		LIST DELIVERABLES:	
REMARKS: (Include Visitors to Project Site and any Other Miscellaneous Comments)			
R. Burton, PRI/ER, T. Cook, CDM Smith, J. Ayala, USACE			
INSPECTOR'S SIGNATURE		PRINTED NAME	DATE
Tom Vanderweel			3/5/2012

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: T. Vanderweel, J. Sabo

Date of Inspection: 03-05-12

Weekly() Pre-Storm() Post-Storm() During-Storm (X)

Time On-site: 1400 Time Off-site: 1420

Description of site condition: Snow and ice covering entire site at a depth of approximately 2-4 inches. Water is starting to pool with the high temperatures over the weekend and the rain last night and today. Rain started falling during the night and continued on and off all day getting heavier in the pm. Water is leaving the site from the SW and SE ends. Photos taken of this drainage. Silt control appears to be working properly. No evidence of unauthorized entries.

Office Trailer Checked? Trailer was checked.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No(x)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes () No(X)

Were repairs made? Yes() No (X)

Comments: One 20 foot area is laying down due to two broken stakes. No water is leaving the site in this area.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No(X)

Comments: Some of the waddles are buried in snow and ice and appear to be intact. Visible waddles are intact. Straw bails remain intact

Notes: Pictures taken of current site conditions

Signature:

Date

3/5/2012

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	3/7/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc - PRI / ER		AM -20's sunny PM -30's sunny
CQC Inspection phases attended and instruction given: 1245 – Onsite. No morning contractor activity. Crew on site has resumed placing Class V rip rap at the toe of the slope using trackhoes with grapples to position the rock. Washed rock has been added to the access road to prevent the tracking of mud from site. Five trucks are hauling rock. 1345 – M Cirian (EPA) has been onsite to show H Fowler (PRI) where additional rip rap is needed at each boat ramp. T Vanderweel onsite to show where bench mark can be used to reestablish the Ordinary High Water Mark. The existing stakes have been covered with rip rap or removed during placement of the toe. Crew continuing the placement of orange barrier fence over the existing rip rap on the slope above the OHWM as specified. 1545 – Placement of rip rap on the toe has been completed and crew has started placing rock on the slope working downstream. HF reported the surveyor showed crew the other day about where placement of class V stopped but would have surveyor return and mark the OHWM again. J Ayala (USACE) on site to check progress. 1545 – Work completed for day. 22 Loads of rip rap placed. Closeout meeting attended by USACE, PRI, and CDM. CDM TQA's to place OHWM grades using laser tomorrow. Placement of rip rap to continue until source is depleted. .		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE • Traffic plan noted with the AHA. • BMP'S placed are stable • Rescue boat in place for emergency use. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
Jim Sabo	3/7/12		

<div> <div> <div> <div></div> <div></div> </div> </div> <div> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY </div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	3/8/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM -20's – 30's sunny PM -30's – 40's sunny
<div> CQC Inspection phases attended and instruction given: </div> <p> 0715 – Onsite. Crew on site continuing placement of rip rap on the the slope using trackhoses with grapples to position the rock. Work progressing from the Highway 37 bridge toward the boat ramps. Five trucks are hauling rock. T Vanderweel (CDM) on site to help establish new Ordinary High Water Mark grades to ensure Class V rip rap is placed to the specified elevation. Crew continuing the placement of orange barrier fence over the existing slope where needed. 1030 – H Fowler (PRI) on site to check progress. Informed HF there was not enough small rock being received to chink with and machines may not be able to reach where chinking was needed as placement of rip rap continues. HF reported smaller rock to be hauled tomorrow and directed operators to move the Class V rock off the slope and place along the OHWM. 1100 – J Steeber (PRI) and J Ayala on site to check progress. 1150 – Off site. 1405 – On site. Placement of rip rap continuing. Majority of material delivered is Class V and is placed along the OHWM. 1515 – Inspected placement of rock depth where placement has been completed. No issues observed. 1720 – Work completed for day. Placement of rip rap to continue tomorrow. 41 Loads delivered today. M Cirian - EPA, H Fowler, J Steeber - PRI, N Raines - CDM have been onsite to inspect progress and hold closeout meeting. Off site. </p>		
<div> Results of QA inspections and tests, deficiencies observed, </div> <ul style="list-style-type: none"> • Crew using proper PPE • Traffic plan noted with the AHA. • BMP'S placed are stable • Rescue boat in place for emergency use. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact?		

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

3/8/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	3/9/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM -20's – 30's sunny PM -30's – 40's sunny
CQC Inspection phases attended and instruction given: 0815 – Onsite. Meet with T Moe (ER QC). 5 Trucks hauling Class 5 Rip Rap. Crew continuing placement of rip rap on the slope using trackhoes with grapples to position the rock. Rock continues to be place along and above the Ordinary High Water Mark.1020 – H Fowler on site to observe progress. Informed HF more straw waddles would be needed along the top of the bank for leaving today. 1150 – Additional straw waddles have been delivered. Off site. 1400 – On site after visiting quarry with HF. HF informs crew to continue placement of rip rap along the OHWM and stay below the 2065 grade until USACE makes decision on final elevation of rip rap. 1500 – Inspected site BMP's and completed SWPPP inspection checklist. No issues observed with erosion control measures.1700 – Work completed for day. Additional rip rap has been added on the up river side of each boat ramp where M Cirian had requested on 3/7. Straw waddles have been placed where needed along the river bank. Placement of rip rap to continue Monday using smaller rock to fill the slope and fill voids in the larger rip rap. 24 Loads delivered today. H Fowler, J Steeber - PRI, N Raines - CDM have been onsite to inspect progress and hold closeout meeting. Off site. .		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE • Traffic plan noted with the AHA. • BMP'S placed are stable • Rescue boat in place for emergency use. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
Jim Sabo	3/9/12		

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: J. Sabo

Date of Inspection: 03-09-12

Weekly(X) Pre-Storm() Post-Storm()

Time On-site: 1400 Time Off-site: 1420

Description of site condition: Site partially covered with snow and ice. Site appears to be drying well. No water or silt migrating from site as snow and ice melts. Photos of erosion control measures collected. Silt control appears to be working properly. Straw waddles placed along river bank where needed. No evidence of unauthorized entries.

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No () NA

Comments:

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Some of the waddles are buried in snow and ice and appear to be intact. Visible waddles are intact. Straw bails remain intact

Notes: Pictures taken of current site conditions

Signature:

Date

3/9/2012

<div> <div> <div></div> <div></div> </div> <div> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY </div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	3/12/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM -20's – 30's sunny PM -30's cloudy
<div> CQC Inspection phases attended and instruction given: </div> <p> 0730– Onsite. Meet with T Moe (ER QC). Site is covered with a thin layer of snow and ice. Crew was informed in the morning meeting of the slip hazards and to take extra caution. 8 ER Trucks hauling rip rap. Crew continuing placement of rip rap on the slope using trackhoes with grapples to position the rock. Orange barrier fence is installed under the rock. Crew using some of the rock to fill the voids in the larger rip rap and to create a 2 to 1 slope on the river bank. Rock has been placed to the 2065 grade and crew is starting placement of rip rap to the top of the slope. 1020 – H Fowler, J Steeber on site to observe progress. N Raines on site and reports USACE has directed the placement of rip rap to continue to be placed to the top of the slope according to the design. 1145 – Off site. 1300 – On site. Placement of rip rap continuing. 1430 – Inspected site BMP'S and completed SWPPP checklist. No issues observed. 1700 – Closeout meeting with N Raines (CDM), H Fowler, J Steeber (PRI). Team Inspected river bank in front of the pavilion and between the boat ramps and agreed the line of rock at the top of the slope needs to be evened and more filling the voids with small rip rap would be required. More fines were observed in the loads of rock than allowable and HF reported he would have issue corrected. 79 Loads delivered today. Good progress made today. Placement of rip rap should be completed tomorrow. Some chinking may remain to be done. Off site. </p>		
<div> Results of QA inspections and tests, deficiencies observed, </div> <ul style="list-style-type: none"> • Crew using proper PPE • Traffic plan noted with the AHA. • BMP'S placed are stable • Rescue boat in place for emergency use. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or		

finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

3/12/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: J. Sabo

Date of Inspection: 03-12-12

Weekly() Pre-Storm() Post-Storm(X)

Time On-site: 1430 Time Off-site: 1500

Description of site condition: Site partially covered with snow and ice. Thin layer of snow and ice covering site in the AM from the weekend rain has melted. No water or silt migrating from site as snow and ice melts. Photos of erosion control measures collected. Silt control appears to be working properly. Straw wattles placed along river bank where needed. No evidence of unauthorized entries.

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No () NA

Comments:

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Some of the waddles are buried in snow and ice and appear to be intact. Visible waddles are intact. Straw bails remain intact

Notes: Pictures taken of current site conditions

Signature:

Date

3/12/2012

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

3/13/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 30's rain
PM - 30's cloudy

CQC Inspection phases attended and instruction given:

0800– Onsite. Meet with T Moe (ER QC). ER Trucks hauling rip rap. Crew continuing placement of rip rap on the slope using trackhoes with grapples to position the rock. Operators are using the grapples to place the smaller rip rap in the rock that has been placed between the boat ramps. 1000 – Hauling of rip rap has been completed. 10 loads hauled today. 2 Workers are filling the voids in the rip rap in front of the pavilion. Harvey Fowler on site and requested TQA to show workers where the voids needed filling and size rock to be used. Inspected the completed section of the bank for voids. Informed HF some rock needed to be shifted to fill some voids but no more rip rap was needed. Some rock also needs to be moved to keep from falling. Observed 3 areas where the orange barrier was visible and informed HF some attention would be required in those areas. Also informed HF a second row of wattles was needed near the gravel boat ramp. 1115 – Crew has placed additional wattles where earlier requested. N Raines. G McKenzie (CDM), R Burton (PRI) onsite to inspect progress. 1155 – Off site. 1300 – On site. Placement of rip rap continuing. 4 Workers filling the voids in the rip rap. 1330 – Walked along the toe of the slope with crew and showed them areas needing attention. Also requested some rock to be shifted or moved from where it was thrown down the slope with the trackhoe and was not placed properly. 1415 – Inspected site BMP'S and completed SWPPP checklist. No issues observed. Site on the west side of the road continuing to improve as snow and ice melts and water drains and percolates in to the detention basins. Very small areas of snow and ice are left to melt. 1600 – Inspected rip rap with J Steeber. JS reported he would have workers move and shift rip rap along the bank to fill voids and place where needed. Crew cleaning trackhoes preparing for demob. 2 Loads of rip rap are stockpiled for use on the bank in front of the pavilion when ground dries enough to access the area. 1700 – Closeout meeting with N Raines (CDM), R Burton, H Fowler, and J Steeber (PRI). Limited work scheduled for tomorrow. Crew to work on the river bank shifting rocks by hand and cleaning dirt off the concrete section from the gravel boat ramp. Off site.

Results of QA inspections and tests, deficiencies observed,

- Crew using proper PPE
- Traffic plan noted with the AHA.
- BMP'S placed are stable

- Rescue boat in place for emergency use.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

3/13/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: J. Sabo

Date of Inspection: 03-13-12

Weekly() Pre-Storm() Post-Storm(X)

Time On-site: 1430 Time Off-site: 1500

Description of site condition: Small areas covered with snow and ice. No water or silt migrating from site as snow and ice melts. Photos of erosion control measures collected. Silt control appears to be working properly. Straw wattles placed along river bank where needed. No evidence of unauthorized entries. Site improving as snow and ice melts and drains in to the detention basins.

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No () NA

Comments:

Inspections of Wattles and Filter Fabric: Yes(x) No()

Are wattles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Some of the wattles are buried in snow and ice and appear to be intact. Visible wattles are intact. Straw bails remain intact

Notes: Pictures taken of current site conditions

Signature:

Date

3/13/2012

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

3/14/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 20's - 30's cloudy
PM - 30's –40's cloudy

CQC Inspection phases attended and instruction given:

1600 – On site. 2 workers on site report they have completed filling voids in the rip rap and moving rocks that may fall. J Steeber was on site earlier to direct work. 1645 – Inspected river bank and observed more rip rap that needs adjustment. Work could be done when placement of rip rap resumes in front of the pavilion. JS on site and was informed. 2 trackhoes were demobilized today. Security is on site. 1705 – Off site

Results of QA inspections and tests, deficiencies observed,

- Crew using proper PPE
- BMP'S placed are stable
- Rescue boat in place for emergency use.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

3/14/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	3/15/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 30’s rain PM - 40’s rain
CQC Inspection phases attended and instruction given: 1500 – On site. No contractor activity today. 1610 – Inspected site BMP’s and completed SWPPP checklist. Photos collected. No issues observed. Off site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP’S placed are intact 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact?		

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

3/15/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Inspector's Name: J. Sabo

Date of Inspection: 03-15-12

Weekly() Pre-Storm() Post-Storm() During Storm

Time On-site: 1500 Time Off-site: 1620

Description of site condition: Small areas covered with snow and ice. No water or silt migrating from site as snow and ice melts. Photos of erosion control measures collected. Silt control appears to be working properly. Straw wattles placed along river bank where needed. No evidence of unauthorized entries. Approximately .3 inch of rain in the last 24 hrs.

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (x) No()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No () NA

Comments:

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact. Straw bails remain intact.

Notes: Pictures taken of current site conditions

Signature:

Date

3/15/2012

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	3/22/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 30’s light rain and snow PM - 40’s cloudy
CQC Inspection phases attended and instruction given: 1110 – Inspected site BMP’s and completed SWPPP checklist. Site is covered with approximately 3 to 4 inches of new snow. No water or sediment is migrating from site. Observed silt fence and safety fence along the RR property line has collapsed from the weight of the snow. Informed H Fowler (PRI) of issue. Photos collected. 1200 – Off site. 1400 – 2 ER workers onsite repairing the silt and safety fence that has collapsed.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP’S placed are intact 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact?		

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

3/22/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 03-22-12

Weekly() Pre-Storm() Post-Storm(X)

Time On-site: 1500 Time Off-site: 1620

Description of site condition: Site covered with approximately 3 to 4 inches of new snow. Photos of erosion control measures collected. Some silt and safety fence along the RR property line has collapsed from the weight of the snow. No silt or water is migrating from the site. Silt control appears to be working properly. No evidence of unauthorized entries. Site has received approximately 1 inch of precipitation since Monday.

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes () No (X)

Were repairs made? Yes(X) No() ()

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes () No(X)

Were repairs made? Yes(X) No ()

Comments: Contractor informed of issue and sent crew to repair silt and safety fence in the afternoon

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact. Straw bails remain intact.

Notes: Pictures taken of current site conditions

Signature:

Date

3/22/2012

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	3/27/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 30's – 40's partly cloudy PM - 40's – 50's partly cloudy
CQC Inspection phases attended and instruction given: 1430 – Inspected site BMP's and completed SWPPP checklist. 3 small piles of snow and a water hole east of the Spur road remain to melt or dry. Site received 0.4 in of rain yesterday and is drying well. Observed 20 ft of silt fence has fallen along the RR property line. H Fowler informed of issue and reported fence would be repaired tomorrow. No water or sediment is migrating from site. 1515 – Off site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP'S placed are intact 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact?		

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

3/27/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 03-27-12

Weekly() Pre-Storm() Post-Storm(X)

Time On-site: 1430 Time Off-site: 1515

Description of site condition: 3 small piles of snow and 1 large water hole east of the Spur Rd remain to melt or dry. Photos of erosion control measures collected. 20 ft of silt and fence along the RR property line has fallen. No silt or water is migrating from the site. Silt control appears to be working properly. No evidence of unauthorized entries. Site received approximately 0.4 in of rain yesterday

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (**(X)** No ()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes () No(X)

Were repairs made? Yes() No ()

Comments: 20 ft of silt fence has fell down along the RR propetry line. H Fowler (PRI) said it would be repaired tomorrow.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact. Straw bails remain intact.

Notes: Pictures taken of current site conditions.

Signature:

Date

3/27/2012

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 03-31-12

Weekly() Pre-Storm() Post-Storm(X)

Time On-site: 1020 Time Off-site: 1100

Description of site condition: Site has received approximately 0.8 inches of rain in the last 24 hours. All snow has melted and there are large water holes. BMP's have held and no silt has migrated from site. Much of the runoff has drained to the detention basins and water is covering the wattles.

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (**(X)** No ()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No()

Comments: Silt fence has been repaired since last inspection.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact. Straw bails remain intact.

Notes: Pictures taken of current site conditions.

Signature:

Date

3/31/2012

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	4/6/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 20’s – 30’s partly cloudy PM - 30’s – 0’s partly cloudy
CQC Inspection phases attended and instruction given: 1620 – Inspected site BMP’s and completed SWPPP checklist. Water hole SE of the Spur road remains. No issues observed. No water or sediment is migrating from site. 1655 – Off site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP’S placed are intact 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact?		

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

4/6/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 04-06-12

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site: 1620

Time Off-site: 1655

Description of site condition: All snow has melted. Water hole SW of the Spur road remains. No issues observed. No water or sediment has migrated from site.

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (☒) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No (☐)

Were repairs made? Yes(☐) No(☐) (NA)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: none

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☐)

Comments: Silt fence has been repaired since last inspection.

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☐)

Comments: Straw wattles are intact. Straw bails remain intact.

Notes: Pictures taken of current site conditions.

Signature:

Date

4/6/2012

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	4/13/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 30's – 40's sunny PM - 40's – 50's sunny
CQC Inspection phases attended and instruction given: 0930 – Inspected site BMP's and completed SWPPP checklist. Small water hole SE of the Spur road remains otherwise the site is dry. No issues observed. No water or sediment is migrating from site. Surveyor on site staking lines and grades of roads and parking areas. Inspected the area for vermiculite that was disturbed when the trackhoe was being secured from falling in the river when rip rap was placed. 1115 – Off site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP'S placed are intact 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact?		

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

4/13/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 04-13-12

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site: 945 Time Off-site: 1115

Description of site condition: All snow has melted. A small water (approximately 300sq ft) hole SW of the Spur road remains otherwise the site is dry. No water or sediment has migrated from site. BMP'S along the Kootenai River Bank are intact.

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No (☐)

Were repairs made? Yes(☐) No(☐) (NA)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: none

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☐)

Comments: Silt fence is on good condition.

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☐)

Comments: Straw wattles are intact. Straw bails remain intact. All water has drained from the detention basins

Notes: Pictures taken of current site conditions.

Signature:

Date

4/13/2012

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	04-16-12
	CONTRACT NO.	W9128F-11-D-0023 UASCE Task Order No.
CONTRACTOR (Or hired labor) Project Resources Inc - PRI-ER		AM - 40's Overcast PM - 50's Overcast
<p>11:04-Arrived on site. Access Road restoration was in progress. Fill was placed along the east embankment. 10-wheelers were delivering and tailgating base material. J. Bache(PRI-ER) graded the stockpile with a Case Skidsteer as R. Eby(PRI-ER) compacted with a smooth-drum roller. 11:17-R. Burton and J. Steeber(PRI-ER) arrived on site and directed the operators to place the fill in horizontal lifts, as opposed to the inclined plane, benching into the previous lifts. 11:44-Departed site. 13:12-Received call from J. Sabo(CDM-SMITH) requesting my attendance at an ad hoc site meeting for Area 2. 13:24-Arrived on site and met with M. Cirian(USEPA) and 2 Set-Up laborers(PRI-ER). I provided the set of drawings that describes the construction limits of Area 2 and M. Cirian directed the laborers to extend the EZ to back of Service Rd north guard rail. He also informed me that the western limits of Area 2 should be extended to the boat ramp west limit due to previously observed contaminant in the area that was temporarily capped a few years ago. M. Cirian also requested that the top of river embankment was to be cleaned and re-seeded from the revetment construction disturbance. Observed J. Bache and R Eby placing and compacting fill in horizontal lifts. 13:47-Departed site for office. Met with N. Raines(CDM-SMITH) and reported the aforementioned expansion area. He stated he'd review archived docs to better assure historical extent.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

Expansion of Area 2, as stated above.

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

04-16-12

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	04-17-12
	CONTRACT NO.	W9128F-11-D-0023 UASCE Task Order No.
CONTRACTOR (Or hired labor) Project Resources Inc - PRI-ER		AM - 40's Overcast PM - 50's Partly Sunny
<p>07:41-Received call from R. Eby requesting set of plans. 08:07-Arrived on site and delivered aforementioned plans. Observed structural fill placement and compaction in the parking area south of Service Rd, between the Access Rd and Hwy 37 and along the Access Rd east embankment. The embankment fill was placed in apparent horizontal lifts. Observed Thomas St abutment construction fence and some star-pickets had fallen in discrete locations. 08:19-Departed site. 08:44-Met with N Raines (CDM-Smith) and discussed proposed road tie-in with existing road at Search and Rescue Building. There's an apparent 1.5' cut in that area. 11:03-Returned to site. RC setting up Area 2 with Clean Room and laydown. Surveyor setting stakes and K. Davis (Davis Surveying) stating they will stake Area 2 similar to Area 1. Met with J. Bache and R Eby (PRI-ER) who posed the following questions:</p> <ol style="list-style-type: none"> 1. Is final Common Fill lift in landscaped areas compacted? 2. Is embankment Top Soil section 4" per plans, or 6" as elsewhere? <p>11:24-Departed site to office and discussed these questions with N Raines. Reviewed plan removal and restoration of Service Rd at S&R. 13:07-Returned to site and requested K Davis to confirm grading at Service Rd. 13:21-Departed site. 14:09-Returned to site and K Davis stated that grading plan is correct with an ~18" cut at conform. 14:18-Departed site.</p>		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • Crew using proper PPE. • No observe fugitive dust. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

N/A

Has anything developed on the work which might lead to a change order or finding of fact?

Expansion of Area 2, as stated above.

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Michael Glaser

04-17-12

□□

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

4/19/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's cloudy
PM - 40's – 50's mostly cloudy

CQC Inspection phases attended and instruction given:

0750 – On site with N Raines (CDM), F Munroe, and ER crew to perform preparatory inspection in Area 2. 0850 – Inspection completed. N R to check sampling results for the embankment and check if there are other options for remediation. FM has concerns about access of the areas due to the steep slopes. Also remediation option around the telephone pedestals to keep from damaging the cables. NR shows crew a 10 ft by 10 ft area on the west embankment that needs to be excavated due to visible vermiculite observed during an inspection performed yesterday. Crew on site placing base material in the boat ramp parking area. Material is tailgated and spread with skid steer loader and compacted with a vibratory roller. K Davis on site with survey team to stake lines and grades. 0820 – Off site. 0955 – On site with NR. NR informs the removal on the east side of the Hwy 37 bridge will be from beginning of the bridge perpendicular to the overhead telephone lines east of the bridge. 1005 – FM on site and informed of the limits of excavation and calls for crew to move containment to include the area. 1005 – NR reports the embankment on the west side of the bridge will be sampled to determine if any areas can be removed from remediation. Also the area around the pedestals can be cleared and excavated enough to place fabric and orange barrier over the surface with crushed material on top. FM informed and calls for mini hoe to work the area. 1145 – The containment has been moved to include the additional area on the embankment and the mini hoe has been mobilized and workers are clearing around the pedestals and removing approximately 6 inches of soil from the area. 1355 – On site. Placement of base in the boat ramp parking areas continuing. Workers in Area 2 are clearing around the pedestals and the embankment on the east side of the bridge. 1415 – J Steeber (PRI) and M Fahland have been on site to check progress. Off site. 1500 – On site for closeout meeting with PRI and ER. Notes - The road at the north end of the site has been staked to facilitate relocation of the utilities, Surveyor to cit crew to 1 person on Monday, J Steeber reports the mod for the expansion in Area IN Area 2 is completed and needs to be signed. 1520 – Off site.

Results of QA inspections and tests, deficiencies observed,

- **BMP'S placed are intact**
- **Crew using proper PPE**

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

4/19/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

4/20/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's rain
PM - 40's rain

CQC Inspection phases attended and instruction given:

0845 – On site and meet with ER QC M Kvapil for Area 2 and ER operator J Bache working in Area 1. MK reports 4 loads (40 cubic yards) of material were removed yesterday. Crew is continuing excavation using a Case 60B trackhoe on the east side of the Hwy 37 bridge in Area 2. JB spreading base material in the parking area just north of the Spur road in Area 1 with a Case TR 320 skid steer loader. Vibrating roller used for compaction. Surveyor K Davis on site staking lines and grades and checking elevations. Requested JB to stop placing base if subsurface becomes too wet. 0935 – Off site. 1025 – On site. Observed base is being placed on standing water and subsurface is becoming soft. Requested JB to stop placing base in that area. 1050 – Placement of base has moved to the south parking area. 1120 – Off site – 1325 – On site. 1400 – Observed placement of base material was again being placed on standing water and trucks were causing ruts in the sub base. Expressed concern to JB and M Gipson (ER) that there may be too moisture in material when compaction tests are performed and that the sub base may be soft. 1350 – After consulting with K Davis JB reports they would move to the parking area south of the search and rescue building. 1435 – Completed SWWWP inspection and completed check list. Removal activity in Area 2 east of the Hwy 37 bridge is progressing well. 1530 – Closeout meeting with ER AND PRI. Notes - J Steeber has 3 modifications for Area 2 work signed, PRI states surveyor may layout sample grids after completion of excavation in Area 2, 1410 – Excavation in Area 2 has progressed to the west side of the Hwy 37 bridge. Assisted removal team move safety fence on the west side of the Hwy 37 back to facilitate excavation to the back of the guard rail. Off site.

Results of QA inspections and tests, deficiencies observed,

- **BMP'S placed are intact**
- **Crew using proper PPE**

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- **None noted.**

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

**SUPERVISOR'S
INITIALS**

DATE

Jim Sabo

4/20/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	4/23/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 40’s – 60’s mostly sunny PM - 60’s – 80’s mostly sunny
CQC Inspection phases attended and instruction given: . 0905 – On site. Crew on site continuing placement and compaction of base material in the south parking Area (skid steer loader and roller operator). K Davis on site checking lines and grades as work progresses. Excavation is continuing on the west side of the Hwy 37 bridge (QC, operator, 2 laborers). 1300 – On site to check on progress. Called K Anderson (CDM) TO inform a soil sample may need to be collected from around the power poles in Area 2. 1330 - Off site 1430 – On site. 1545 – Collected soil sample with KA from around the 3 power poles in Area 2. Fill has been delivered, Contractor has placed orange barrier on the sampled surface, deconned the trackhoe bucket and placed fill around the poles. Marked out a 10 ft by 10 ft on the embankment where vermiculite was observed during a point inspection. Off site. 1700 – M Kvapil (ER QC) reports 13 loads have been removed today. .		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP’S placed are intact • Crew using proper PPE • Good dust control in Area2 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

4/23/12

<div> <div> <div></div> <div></div> </div> <div> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY </div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	4/24/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 50’s – 60’s partly cloudy PM - 60’s – 70’s partly cloudy
<div> CQC Inspection phases attended and instruction given: </div> <div> . 0850 – On site. Restoration crew onsite in Area 1 has started placing common fill the areas surrounding the boat ramp parking areas. Observed ER operator J Bache spreading fill in the large water hole east of the Spur Rd. Expressed concern to JB he may create a soft spot. J Steeber (PRI) on site to observe progress. K Davis (surveyor) staking lines and grades. Removal crew (M Kvapil ER QC) continuing excavation on the west side of the Hwy 37 bridge in Area 2. 1040 – Off site. 1415 – On site. Observed restoration crew installing caution tape around the area JB was spreading soil in water this AM. R Eby (ER) stated the area was soft and needed to keep the trucks out of the area. Checked area with a probing bar and was able to push the bar easily 18 inches to 2 ft inn to the ground. 1600 – USACE, PRI, ER have been on site to inspect progress and hold meeting. USACE has requested areas to receive common fill be scarified before placement of soil. J Steeber to write mod for changes to the river bank restoration. Removal in Area 2 should be completed tomorrow. K Davis crew to lay out sampling grids on 4/26 and CDM to follow with sampling the area. Off site. </div>		
<div> Results of QA inspections and tests, deficiencies observed, </div> <div> <ul style="list-style-type: none"> BMP’S placed are intact Crew using proper PPE Good dust control in Area2 </div>		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

4/24/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

4/25/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 50's – 60's partly cloudy
PM - 60's – 70's partly cloudy

CQC Inspection phases attended and instruction given:

. 0840 – On site. Removal crew on site to resume excavation in Area 2. Restoration crew continuing placement of common fill around the boat ramp parking area. 0900 – C O'Conner (CMG) on site to test compaction on the road, parking areas and selected areas where common fill has been placed. 0910 – M Buss, J Ayala (USACE) J Steeber (PRI) on site to observe progress and compaction tests. 1150 – 23 compaction tests have been performed. No issues were noted. Off site. 1420 – On site. Observe crew placing common fill south of the boat ramp area without scarifying area first. Informed M Gipson (ER) of USACE request to scarify areas before placing soil and he reported that was just for the area the rip rap was stockpiled. 1440 – Issue reported to D Repine (CDM). DR reports the direction from USACE was to scarify all areas to receive soil. M Gipson informed and reported he would have a tractor mobilized to perform work. 1300 – PRI, ER on site for closeout meeting. 1535 – Tractor with pulverizer is mobilized. 1620 – Observed placement of common fill over scarified area. Requested R Eby to make additional passes over surface as the machine was barely scratching the surface. Removal in Area 2 near complete. Off site.

Results of QA inspections and tests, deficiencies observed,

- **BMP'S placed are intact**
- **Crew using proper PPE**
- **Good dust control in Area 2**

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

4/25/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	4/26/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 50's – cloudy, light rain PM - 50's – 60's light rain
CQC Inspection phases attended and instruction given: . 0820 – On site. Restoration crew on site continuing placement of common fill south of the boat ramp parking area and along the RR property line. Informed operator J Bache (ER) USACE has agreed that scarifying the soil the current lift is being placed on is not needed but the final grade of common fill will need to be loosened before placement of topsoil. M Gipson (ER foreman) informed. Removal crew in Area 2 has resumed excavation. M Kvapil (ER QC) reports crew to complete removal before lunch. K Davis on site staking grades for common fill and 2 workers are staking the sample grids in Area 2. 0910 – Off site. 0935 – On site. 1030 – Reported to N Raines (CDM) that portions of the excavation under and on the east side of the Hwy 37 bridge is not to the specified depth due to the contractor protection of the utilities. Informed by NR the final elevations can be adjusted to ensure an 18 inch cap and should not be an issue. Off site. 1250 – On site. Excavation in Area 2 has been completed and crew starting to decon the trackhoe. MK reports 22 loads were removed yesterday and 10 today. K Anderson on site to collect soil samples. Surveyors completing layout of the grids. 1435 – 7 soil samples collected. KA off site. 7 more samples need to be collected to complete sampling. 1550 – Observed placement of common fill and inspected site BMP'S. Placement of fill is progressing well. No issues noted. Requested R Eby to return the straw bales that were removed to facilitate placing fill in the SW corner of the site. 1510 – PRI, ER on site for progress meeting. 1550 – Off site. 1645 - R Eby reports 33 10 yard trucks and 19 trailer loads of common delivered today and 57 10 yard loads delivered on 4/25.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP'S placed are intact • Crew using proper PPE • Good dust control in Area 2 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

4/26/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 04-26-12

Weekly(☒) Pre-Storm(☐) Post-Storm(☐)

Time On-site: 1430 Time Off-site: 1600

Description of site condition: Contractor placing common fill over site. Light rain creating small puddles. No water or sediment is migrating from site.

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No(☐)

Inspection of Perimeter Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No (☐)

Were repairs made? Yes(☐) No(☐) (NA)

Are the snow plow flags in place and visible? Yes(☒) No(☐)

Comments: none

Inspection of Silt Fence: Yes(☒) No(☐)

Is the fence intact? Yes (☒) No(☐)

Were repairs made? Yes(☐) No (☐)

Comments: Silt fence is on good condition.

Inspections of Waddles and Filter Fabric: Yes(☒) No(☐)

Are waddles intact? Yes(☒) No(☐)

Were repairs made? Yes(☐) No(☐)

Comments: Straw wattles are intact. Straw bails remain intact. All water has drained from the detention basins

Notes: Pictures taken of current site conditions.

Signature:

Date

4/26/2012

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

4/27/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's – cloudy
PM - 50's – cloudy

CQC Inspection phases attended and instruction given:

. 0810 – On site. Restoration crew on site continuing placement of common fill along the RR property line. J Bache (ER) spreading fill in lifts with a skid steer loader, R Eby (ER) making one pass over the lift with roller not vibrating to keep from compacting the soil to enhance growth Survey crew on site replacing the stakes in the boat ramp parking area and marking final grades. 0900 – K Anderson on site to collect soil samples in Area 2. 1045 – KA and TQA lay out the remaining sample grids in Area 2 and collect 7 samples. KA off site. 1130 – Off site. 1630 – R Eby reports 32 10 yd and 18 trailer loads of common delivered today.

Results of QA inspections and tests, deficiencies observed,

- **BMP'S placed are intact**
- **Crew using proper PPE**

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

4/27/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

4/30/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's – rain
PM - 50's – rain

CQC Inspection phases attended and instruction given:

. 0815 – On site. Crew on site to continue placement of common fill. Placement has progressed to the NW corner of Area1. 0830 – R Eby (ER) reports 4 truckloads will be delivered and work will stop in Area1 due to wet conditions. 0940 – J Bache (ER) reports crew will place orange barrier in Area 2 around the concrete pad and place base material to facilitate water truck access to the pump. 1025 – M Gipson (ER) on site. Pre Restoration inspection held and MG instructs JB to only place fill around the concrete pads to allow access to the water pump. Crew to move containment to allow access to area. 1130 – Off site. 1150 – H Fowler (PRI) reports no afternoon site work due to rain.

Results of QA inspections and tests, deficiencies observed,

- **BMP'S placed are intact**
- **Crew using proper PPE**

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

- No afternoon work due to rain

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

4/30/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/1/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 40's – cloudy PM - 50's – mostly cloudy.
CQC Inspection phases attended and instruction given: .0755 – On site. ER crew on site to begin Area 2 restoration. Informed J Bache(ER) samples have cleared to the power poles on the west side of the Hwy 37 bridge. Crew to begin placing structural fill starting at boat ramp #2 and progress towards the bridge building the truck parking area around the standpipe and walking path under the bridge... K Davis on site to stake lines and grades. Orange barrier placed on subsurface. 1100 – Informed JB all samples have cleared. Skid steer loader broke down. 3 trucks delivering structural fill. 1150 – Mechanic has been on site. Machine not repaired. Off site. 1300 – On site. JB reports contractor to mobilize another skid steer loader. 1400 – Skid steer loader has been mobilized. Placement of base material resumes. 1430 – Inspected site BMP's and completed SWPPP checklist. 1540 – USACE, ER. PRI, on site for progress meeting. Area 2 restoration and grading issues discussed. Off site.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP'S placed are intact • Crew using proper PPE 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/1/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 05-1-12

Weekly() Pre-Storm() Post-Storm (X)

Time On-site: 1430

Time Off-site: 1600

Site has received approximately .5 inches of rain from previous storm on 4/30. Numerous puddles observed over Area 1. No water or sediment is migrating from site. Contractor currently placing fill in Area 2. No issues observed in Area 2

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (**(X)** No ()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No ()

Comments: Silt fence is on good condition.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact. Straw bails remain intact. All water has drained from the detention basins . Some water trapped in the swales

Notes: Pictures taken of current site conditions.

Signature:

Date

5/1/2012

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/2/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 30's - 40's partly cloudy PM - 50's partly cloudy.
CQC Inspection phases attended and instruction given: .0815 – On site. 0930 – R Eby (ER) reports 20 loads of base material were delivered on 5/1. Crew continuing placement of base material on the walking path and started placement of common fill on the areas to receive topsoil. 3 additional workers on site placing orange barrier on the sub surface. K Davis on site staking lines and grades. Off site. 1015 – On site. J Steeber (PRI), M Gipson (ER) on site to check progress. JS reports embankment restoration on hold until MDOT can be consulted. 1145 – Placement of orange barrier has been completed. Crew has placed filter fabric and orange barrier around the power poles and pedestals at the eastern of Area 2 where the removal was not to the specified depth to protect the utilities. Requested MG to have crew install BMP's in the area surrounding the pump house. Off site. 1300 – On site. D Langton (ER) on site with crew (2 laborers) and vac unit to perform a surface vac where vermiculite was observed in the area surrounding subgrade points 718 and 693. Points are located approximately 40 ft south of City Service Rd in front of the office trailer. 1445 – Surface vac completed. Inspection of surfaces vacuumed and vermiculite point inspection performed in the area surrounding the subgrade points and no vermiculite was observed. 1515 – USACE, PRI, ER on site for progress meeting. J Hubbard (USACE) approves for embankments in Area 2 to be restored with 12 inches of topsoil where common fill has not been placed. Final grade to be adjusted to facilitate drainage in Area 2 from the Hwy 37 bridge toward the boat ramp. 1530 – Inspected the surface vac with M Cirian (EPA) and additional vermiculite was observed. Vermiculite flakes were placed in a bag and disposed of as ACM. 1620 – MC inspected progress in Area 2 and expressed concern over the width of the walking path and requested no more material be placed on it until a City Representative can inspect it. 1650 – Off site. 1710 – R Eby reports 28 loads of base material and 27 loads of common fill delivered today.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP'S placed are intact • Crew using proper PPE 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/2/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/3/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 30's - 40's cloudy
PM - 40's light rain

CQC Inspection phases attended and instruction given:

.0805 – On site. Crew on site placing common fill on the embankment on the east side of the Hwy 37 bridge. K Davis crew on site staking lines and grades. KD reports crew to be on site about 2 hours and leaving to another property. 3 trucks hauling today. 0900 – 2 trucks have started hauling topsoil. JB begins placement of topsoil on the east embankment. Soil tracked in with skid steer due to the steepness of the slopes. 1015 – Off site. 1300 – On site. Placement of topsoil continuing on the Area 2 embankments. 1605 – Pot holed numerous locations on the east embankment to determine that a one foot cap has been achieved. All of the sub grade point stakes have been knocked down during placement of fill. JB informed of areas that need more soil. East embankment near complete. Erosion matting has been delivered. USACE, PRI, ER, have been on site for progress meeting. Team informed M Cirian has been on site with City of Libby rep and requested no further material be placed on the walking path until the city makes a decision on restoration of that area. Installation of the sewer line discussed. Off site. 1705 – R Eby (ER) reports 14 loads of common fill and 36 loads of topsoil delivered today.

Results of QA inspections and tests, deficiencies observed,

- **BMP'S placed are intact**
- **Crew using proper PPE**

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/3/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/4/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's mostly cloudy
PM – 50's mostly cloudy

CQC Inspection phases attended and instruction given:

0910 – On site. Crew on site continuing to place topsoil on the Area 2 embankments. Restoration crew (2 laborers) on site to construct borders around and guide wires using 6 X 6 timbers. K Davis on site to check lines and grades. H Fowler on site to check progress. 1000 – J Bache moves skid steer loader to begin placing common fill in areas at west end of Area1. Requested JB not to place fill in the muddy area along the RR property line and where there is ponding water. 48 N surveyor on site to layout the proposed sewer line to be installed. 1415 - Placement of common fill and construction of borders around the guide wires continuing. 1535 – Pot holed the west embankment for 12 inches of soil and found areas needing more soil. Informed JB. PRI has been on site for progress meeting and inspect progress. No issues noted. **Off site.** 1700 – R Eby (ER) reports 40 loads of common and 4 topsoil delivered today.

Results of QA inspections and tests, deficiencies observed,

- **BMP'S placed are intact**
- **Crew using proper PPE**

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/4/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/7/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 30's – 50's mostly sunny PM – 50's – 70's mostly sunny
CQC Inspection phases attended and instruction given: 0800 – On site. ER crew on site continuing to place common fill on the west end of Area 2. K Davis survey crew on site to layout lines and grades. 0930 – M Cirian (EPA) has been on site and informed TQA of changes the City of Libby wants made to the walking path in Area 2. The path is to be eliminated and replaced with topsoil from the east end of where the structural fill turns toward to the pump house to the west end of the box built around the guy wires. The path will remain unchanged to the east end of Area 2. 1140 – K Davis reports his crew will be off site at 1200 to another property. Off site. 1410 – On site. Placement of common fill continuing. J Bache (ER) has moved to the NE of area 1 to spread fill leaving a 50 ft gap to facilitate the installation of the sewer line. 1545 – J Steeber has been on site for progress meeting. Borders around the guy wires on the east side may need to be installed to facilitate drainage around the power poles. No issues observed. 1600 – Representatives of City of Libby, F Munroe (ER), J Steeber on site to inspect sewer manhole to be tied in to and layout of the line. Installation to begin on Thursday 5/10. 1615 – Off site 1705 – R Eby (ER) reports 96 loads of common fill delivered today.		
Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP'S placed are intact • Crew using proper PPE 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/7/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/8/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 30's – 50's sunny PM – 50's – 70's mostly sunny
CQC Inspection phases attended and instruction given:		
<p>0810 – On site. ER crew on site placing common fill in the areas surrounding the parking area west of the spur road. Case trackhoe has been mobilized to load the rip rap and dirt mix that was stockpiled near the parking area. K Davis on site to layout lines and grades. 0920 – Off site. 1320 – On site. Placement of common fill taking place in front of the Search and Rescue Bldg. Crew moving around site to fill areas that had to be left due to being too wet or grade issues. Removal of the rip rap and dirt mix has been completed. 1435 – AM Crites (CDM) has been on site to inspect the areas to receive topsoil and grass seed where common fill has been placed. AMC suggests the common fill should be scarified to a 6 inch depth to enhance growth. R Eby (ER) scarified a small area using the contractor's tractor with pulverizer wheel and broke the soil to a 1 inch depth maximum and barely scratched the surface on some of the area. 1625 – USACE, PRI, on site for progress meeting. Informed of hardness of common fill issue, R Burton (PRI) stated an attachment will be used to scarify the soil properly to accept topsoil. Off site. 1700 – R Eby reports 64 loads of common fill delivered today.</p>		
\ , Results of QA inspections and tests, deficiencies observed, <ul style="list-style-type: none"> • BMP'S placed are intact • Crew using proper PPE 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/8/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/9/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 30's – 50's mostly sunny
PM – 50's – 60's mostly sunny

CQC Inspection phases attended and instruction given:

0800 – On site. ER crew (J Bache, R Eby) on site placing common fill in the west corner of the site near the RR property line. K Davis on site staking lines and grades. City of Libby crew has delivered sewer pipe and inspected layout of the line. Informed J Steeber of the 2 different details in the drawings relating to the under bridge restoration. 1045 – Off site. 1425 – On site. City workers continuing mobilization of material and equipment to install sewer line. Pipe, manholes, trench box, bedding sand, rubber tire loader on site. Crew staging the materials where they can be accessed during installation. 1545 – USACE, PRI, on site for progress meeting. Pre construction meeting to be held 0810 tomorrow morning with City workers for the sewer line. No other issues noted. H Fowler (PRI) has been on site to check progress and determine equipment needed to scarify the common fill before placement of topsoil. J Bache continuing placement common fill in the west corner and grading the swales. 1730 - R Eby reports 44 loads of common fill delivered today.

\

Results of QA inspections and tests, deficiencies observed,

- BMP'S placed are intact
- Crew using proper PPE
- Representative of Jack's Water Service on site to measure sprinkler system without PPE. Requested worker to check project crew before entering site.
-

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/9/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/10/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 30's – 40's mostly sunny
PM – 50's mostly sunny

CQC Inspection phases attended and instruction given:

0800 – On site. ER crew (J Bache, R Eby) on site continuing placement of common fill in the west corner of the site near the RR property line. EPA, USACE, Libby City workers, 48 North, ER, PRI, CDM on site for the pre construction meeting for the sewer line installation. 0945 – Meeting concluded. Topics covered – Line installation and backfill, health and safety, traffic control, schedule. Backfill material continuing to be delivered. ER has moved the decon trailer from Area 2 to in front of the pavilion and mobilized a water tank for dust suppression. 1020 – ER workers off site (traffic control on site) while decision to allow city to install line to the first manhole is made. 1110 – J Steeber reports EPA, USACE has agreed to have Libby install the sewer line to the first manhole. PRI/ER will provide flaggers and trucks to haul spoil to the mine site. Inspected the grading to the detention basin that was moved to protect 2 trees between survey points 370 and 480. No elevations were provided for the new location. The surrounding area is graded to drain to the basin and elevations will be noted on the as built drawing. Placement of common fill has moved to east side of the Spur road. Libby has mobilized a trackhoe to excavate the sewer line. ER placing lay down material alongside of City Service road. 1150 – Off site. 1340 – On site. Observed dirt on the road that fell from a truck when turning off Hwy 37 on to City Service Rd. Requested R Eby to contact their vendor to load trucks properly. Libby workers have started excavation to tie the new sewer line into the manhole located in the road in front of the Search and Rescue Bldg. 1430 – J Auer (PRI) has inspected the electric service on the Search and Rescue Bldg. Power line to the building to be dropped in the morning to allow excavation to progress past the building. Inspected site BMP's and completed SWPPP checklist. Observed some issues with the silt fence along the RR property line. 1540 – PRI has been on site for progress meeting. Informed J Steeber some silt fence along the RR property line needs to be repaired. H Fowler (PRI) on site operating the farm tractor with a box blade ripping the common fill at the SE corner of site. 1730 – USACE, PRI have been back on site to inspect progress of the sewer line installation and the loosening of the common fill. City workers to stay late to backfill the trench to the side of the road. Off site.

\,
,

Results of QA inspections and tests, deficiencies observed

- Crew using proper PPE
- Observed Libby workers using their trench box and wearing hard hats and safety vests.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/10/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 05-10-12

Weekly() Pre-Storm() Post-Storm (X)

Time On-site: 800 Time Off-site: 1600

No recent rain and the site is dry. No water or sediment has migrated from site. BMP's along the river bank are intact. No storm water issues have been observed.

Office Trailer Checked? Trailer checked.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (**(X)** No ()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes () No(X)

Were repairs made? Yes() No ()

Comments: Silt fence along the RR property line needs to be repaired in places.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact. Straw bails remain intact. All water has drained from the detention basins.

Notes: Pictures taken of current site conditions.

Signature:

Date

5/10/2012

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/11/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 30's – 50's sunny PM – 50's – 60's sunny
CQC Inspection phases attended and instruction given:		
<p>0845 – On site. ER crew (J Bache, R Eby) on site placing topsoil starting the SE corner of the site. R Eby placing new silt fence along the RR property line where needed. H Fowler mobilized a Cat grader last night and stayed late to scarify the common fill to receive topsoil. City of Libby workers have resumed installation of the sewer line. Crew was on site to 2300 last night to complete the tie in to the manhole and backfill the trench enough to open the road. 2 PRI-ER flaggers are on site and the spoil from the pipe trench is being loaded on to ER trucks for disposal at mine site. 0945 – USACE has been on site to check progress of sewer line and site work. 1120 – Off site 1400 – On site. Placement of topsoil continuing. Workers making an effort to not have trucks compact the common fill and using the tractor with box blade to break the soil where the grader could not access. City workers progressing slowly to the first manhole in the Search and Rescue parking lot. 1550 – USACE, PRI, CDM, onsite for progress meeting and pre construction meeting with TRAC utilities. TRAC to begin relocation of the utilities on Monday 5/14. Off site. 1645 – R Eby reports 56 loads of topsoil delivered today.</p>		
\ , Results of QA inspections and tests, deficiencies observed <ul style="list-style-type: none"> • Crew using proper PPE • Observed Libby workers using their trench box and wearing hard hats and safety vests. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/11/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/14/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 30's – 50's sunny
PM – 50's – 80's sunny

CQC Inspection phases attended and instruction given:

0805 – On site. ER crew (J Bache, R Eby) on site continuing placement of topsoil in the area along the RR property line and surrounding the south parking area. Requested crew to continue to loosen the soil the trucks have traveled over and compacted. K Davis crew on site staking lines and grades. Removal crew (F Munroe ER foreman, M Kvapil QC) on site moving the decon trailer, generator, and office trailer from the pavilion parking area to facilitate the relocation of communication cables by TRACK Utilities. Decon trailer moved to the NE parking area to be used by the crew installing the sewer line. City of Libby crew and ER removal crew on site to install the sewer line. Libby workers have installed the line to the manhole in front of the Search and Rescue Bldg. ER will excavate and load and Libby workers will install pipe from that station. 0840 – USACE has been on site to inspect progress and approved for the silt fence along the RR property line to be removed to facilitate construction of a berm between the properties. Straw wattles may replace the silt fence. Track Utilities has started excavation at the pedestal next to boat ramp #1 to relocate the cables. Crew placing the spoil on plastic. 1000 – ER workers have donned Level C PPE and started excavation of the sewer line. 1050 – Utility contractor observed vermiculite flakes in their excavation. Flakes were placed in an ACM bag and excavation continues. Reported issue to D Repine (CDM). Crew to continue excavation until more vermiculite is observed. Reported to DR the surveyor does not have the control points where the utility contractor is excavating to determine what backfill material should be used. Contractor to leave ditch 12 inches below subgrade after line installation. 1155 – Libby workers stated their foreman advised them they did not have to wear respirators while in the pipe trench. R Burton has been on site to check progress and reported the decision was made last Thursday the City workers did not have to comply with project Health and Safety standards. Informed D Repine. Off site. 1315 – On site. TRACK Utilities has excavated 200 ft of trench and workers have started installing the cable. City of Libby workers have installed the shoring box in the trench and are setting the first piece of pipe from the manhole. J Bache continuing placement of topsoil. 1410 – Off site. 1455 – On site. 1600 – EPA, USACE, PRI, CDM, ER on site for progress meeting. M Cirian (EPA) informed contractor to begin placing 4 inches of topsoil instead of 6. The final 2 inches will be made of wood chips. The berm along the RR property line will have a 3 to 1 slope to facilitate grass cutting. Restoration an Area 2 reviewed. 1700 – Sewer line crews securing site for night. TRACK Utilities to work late and backfill their trench (approximately 200 ft). No additional vermiculite was observed in the spoil and the material was used for backfill. R Eby reports 71 loads delivered today. Off site.

Results of QA inspections and tests, deficiencies observed

- ER-PRI crew using proper PPE
- Requested TRACK Utilities operator to lower front bucket when exiting machine.
-

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- Observed City of Libby workers not wearing PPE and out of the shoring box while in the trench. No ladder in the trench. No corrective action taken as Workers do not have to comply with project Health and Safety standards.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/14/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/15/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 30's – 50's sunny
PM – 50's – 80's sunny

CQC Inspection phases attended and instruction given:

0805 – On site. ER crew (J Bache, R Eby) on site continuing placement of topsoil and construction of the berm in the area along the RR property line working toward the west corner of Area 1. K Davis on site staking lines and grades and assisting sewer line crew set up their laser. KD reports crew installed 56 ft of pipe yesterday. M Kvapil (ER QC) reported 0720 the removal crew is on site. Removal crew (Level C PPE) has started excavating the pipe trench and loading the spoil on trucks. Contractor has water tank and pump set up for dust control while loading spoil. 1 City worker on site. TRACK Utilities on site to resume relocation of the communication cables along City Service Rd. H Fowler on site with backhoe to load excess soil from the utility trench. Soil to be disposed of at the Mine site. 0820 – City crew begins to arrive on site. 1045 – Crew has installed 36 ft of pipe. Backfilling and compaction of the trench has started. Observed crew bedding and placing first lift with sand. City workers not using respirators or tyvek while working in the trench. 1115 – Off site. 1300 – On site. Crew on site to load the silt fence and straw bales used for erosion control along the RR property line. Silt fence has been removed to facilitate construction of the berm and will be replaced straw wattles at the low points on the south and west corner of Area 1. D Repine (CDM) reports USACE/EPA has approved for debris to be disposed of at the Lincoln County Landfill as construction debris. H Fowler continuing to load excess soil from the utility trench. K Davis has assisted in where structural fill and topsoil placed in the trench. Crew has bagged the plastic the soil was placed on in ACM bags for disposal as ACM. Sewer crew making better progress. City backfilling trench to 18 inch below ground surface where PRI-ER will complete backfill to finish grade. 1545 – USACE, PRI, ER on site for progress meeting. Slow progress of the sewer line installation noted, construction of the berm along the RR property line inspected and found to be acceptable. 1645 – 120 feet of sewer line has been installed today. M Kvapil reports 20 loads of soil has been excavated from the pipe trench and taken to the Mine site. TRACK Utilities has excavated 200 ft of trench for the cable relocation. Off site.

Results of QA inspections and tests, deficiencies observed

- ER-PRI crew using proper PPE
-

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- **Observed City of Libby workers not wearing PPE and out of the shoring box while in the trench. No ladder in the trench. No corrective action taken as Workers do not have to comply with project Health and Safety standards.**

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/15/12

□□

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/16/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's – 50's sunny
PM – 50's – 70's mostly sunny

CQC Inspection phases attended and instruction given:

0820 – On site. ER crew (J Bache, R Eby) on site continuing placement of topsoil in the areas surrounding the boat ramp parking area. R Eby reports 60 loads of topsoil were delivered yesterday. K Davis on site staking lines and grades and assisting sewer line crew set up their laser. M Kvapil (ER QC) reported 0730 the removal crew is on site. Removal crew (Level C PPE) excavating the trench for the sewer line and loading the spoils for disposal at the mine. TRACK Utilities on site excavating the trench for the communication cable relocation along the Pavilion parking area. Excavation taking place near the pedestals across the road from the Search and Rescue Bldg. H Fowler on site backfilling the top 12 inches of the trench and loading excess soils for disposal at the mine. Structural fill is placed on the parking areas as the soil is cleaned from it. 0945 – M Cirian to inspect progress. MC requests J Hammons (Libby) to have workers stay in the trench box while installing the sewer line and keep the ladder in the trench. 1005 – D Repine reports UASCE has directed PRI – ER to stop excavating if workers continue to exit the trench box on the trackhoe end. M Fahland (ER) on site and M Kvapil informed. J Hammonds also informed. 1155 – USACE has been on site to inspect progress. H Fowler has mobilized a grader to scarify the common fill between the new road and the existing City Service Rd. Sewer line installation has progressed to the second manhole. Excavation to progress in a southwest direction after installation of the manhole. 48 North has been on site to inspect sewer installation for MGM. Off site. 1300 – On site. J Steeber , F Munroe on site observing excavation of the sewer line. J Bache spreading topsoil in the area that was scarified this morning. Excavation for the manhole continuing. Small section of City Service Rd has been removed to slope the ditch banks. 1535 - USACE, PRI-ER, CDM on site for progress meeting. Inspection of boat ramp #2 to plan excavation and reconstruction of the ramp. City workers have completed the installation of manhole #2. No pipe installed in the afternoon. 1700 – M Kvapil reports 17 loads were excavated from the sewer trench and hauled to the mine. 6 loads of common fill delivered for trench backfill. Installation of the new communication cable been completed close to where cables need to be spliced together. Installation contractor reports connection to be made in approximately a week. No vermiculite was observed in the utility trench spoil and contractor's backhoe was inspected for vermiculite contamination before demob. H Fowler continuing cleanup of the trench installation. Plastic the spoil was placed on was bagged in ACM bags for disposal. Off site

Results of QA inspections and tests, deficiencies observed

- ER-PRI crew using proper PPE
- Observed City crew and TRACK Utility workers compacting their trenches.

- Water trucks pass through site throughout day for dust control.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- Observed City of Libby workers not wearing PPE and out of the shoring box while in the trench. No ladder in the trench. Requested workers to stay in box and USACE has directed work to stop if action continues.
- City's rubber tire loader backup alarm not operating. Alarm was shut off by switch and activated when TQA requested operator to do so.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/16/12

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**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/17/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
Project Resources Inc / Environmental
RestorationAM – 40's – 60's partly cloudy
PM – 60's – 70's partly cloudy**CQC Inspection phases attended and instruction given:**

0820 – On site. ER crew (J Bache, R Eby) on site continuing placement of topsoil in Area1 between the new road and the existing City Service Rd. Removal crew (M Kvapil ER QC) on site excavating the trench for the sewer line. Crew using Level CPPE. City of Libby crew on site to install the pipe and backfill the ditch to 18 inches below ground surface. H Fowler on site continuing backfill of the utility trench and cleaning the area the spoil from the trench was placed. K Davis crew on site to check lines and grades. 1145 – Pipe has been installed to the second manhole and the trench box has been moved and pipe installed to approximately sta 5+00. Vermiculite has been observed in the soil and the City workers (J Hammond) has been informed of the contamination. F Munroe (ER foreman) has instructed crew to move the containment and expose the water line and excavate a sufficient area for the city to lower the line to allow 18 inches of separation between the sewer line and the water line. 1250 – On site. Removal crew setting up to excavate around the water line. 2 trucks on site waiting for loads. 1400 – Excavation to the top of the water line has been completed. K Davis has shot elevation of the top of the main and it was found to be 1.3 inches lower than the sewer line. City workers report distance between the pipes is sufficient for the sewer to cross over the water main. 1430 – Excavation of the sewer line has resumed. 3 City workers have donned Modified Level C PPE and have entered trench box to install pipe. City workers installed the wrong cone at manhole 1 and have excavated around and removed the cone to replace with a shorter one. 1500 - PRI-ER, CDM on site for progress meeting. Sewer progress inspected. R Burton reports City may want to work late tomorrow to complete installation, no topsoil to be hauled tomorrow to give operator chance to finish grade areas where topsoil has been placed. 1620 – Off site. 1700 – R Eby has reported 58 loads of topsoil delivered today and M Kvapil reported 15 loads of spoil from the sewer trench were taken to the mine and 60 feet of pipe installed.

Results of QA inspections and tests deficiencies observed

- ER-PRI crew using proper PPE
- Water trucks pass through site throughout day for dust control.
- Observed city workers staying in the shoring box as requested.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/17/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/17/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 40's – 50's partly cloudy PM – 50's – 60's partly cloudy
<p>CQC Inspection phases attended and instruction given:</p> <p>0815 – On site. ER restoration and removal crews on site continuing placing topsoil and excavating the trench for the new sewer line as City of Libby workers install the pipe. Removal crew using Level C PPE and City crew using Modified C PPE 48 North (Libby) and K Davis (PRI-ER) crews on site to check lines and grades. 0830 – Flathead Electric on site set new power pole... J Steeber (PRI) on site for meeting with FE crew. Crew provided plastic to place soil on and informed to leave soil 12 inches low and to inform TQA if vermiculite is encountered. 1015 – Checked depth of top soil along the RR property line. 6 inches of topsoil observed at all locations inspected. K Davis checking final elevation in the area. J Bache pacing additional topsoil where elevations found to low and removing the silt fence on the west boundary to facilitate blending soil to the adjacent property. Straw wattles to be placed in critical areas for erosion control. 1100 – Off site. 1300 – On site. FH has the new pole in place and installing the anchor for the pole. Restoration crew to be off site this afternoon to another removal property. City workers making good progress installing the sewer line. 1530 – PRI, ER, CDM, on site for progress meeting. Next week's schedule discussed. Large amount of backfill will have to be done after the sewer line is completed. The topsoil area outside the new road needs fine grading. Inspected site BMP's and completed SWPPP checklist. No issues observed. 1615 – Work stops at sta 7 + 50. Installation of sewer line should be completed Monday 5/21. 20 Loads of soil hauled to the mine and approximately 120 feet of pipe installed today. Off site.</p>		
<p>Results of QA inspections and tests deficiencies observed</p> <ul style="list-style-type: none"> • ER-PRI crew using proper PPE • Water trucks pass through site throughout day for dust control. • Observed city workers staying in the shoring box as requested. 		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p>		
<p>Has anything developed on the work which might lead to a change order or finding of fact?</p>		

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/18/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 05-18-12

Weekly() Pre-Storm() Post-Storm (X)

Time On-site: 800 Time Off-site: 1600

No recent rain and the site is dry. No water or sediment has migrated from site. BMP's along the river bank are intact. No storm water issues have been observed.

Office Trailer Checked? Trailer checked. Trailer is off site.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (**(X)** No ()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No ()

Comments: Silt fence along the RR property has been removed to facilitate construction of the berm. Straw wattles have been placed in critical areas.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact.

Notes: Pictures taken of current site conditions.

Signature:

Date

5/18/2012

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

 The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/21/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
Project Resources Inc / Environmental
Restoration

 AM – 50's rain
 PM – 50's cloudy with showers

CQC Inspection phases attended and instruction given:

0800 – On site. M Kvapil (ER QC) reported 0715 crew was on site. Removal crew (Level C PPE) in containment waiting on trucks to begin excavating trench for the sewer line and City of Libby to install the pipe. 0820 – Dump trucks and City crew begin to arrive. Excavation of trench begins. R Eby (ER) on site to dump 1 load of topsoil and to report restoration crew will be on another site for some time. K Davis on site to check lines and grades. 0840 – 3 City workers begin to backfill and compact the trench between the second and third manholes. 0910 – Excavation has progressed as far as possible until City installs pipe. 2 City workers in the trench box (Level C PPE modified) bedding the ditch bottom with sand. Crew reports pipe cannot be set until surveyor (48 North) arrives. 2 trucks on site waiting to be loaded. 0920 – J Bache arrives with skid steer loader to begin pushing topsoil back from the edge of road and parking areas. 3 trucks waiting to be loaded. 1000 – 48 North on site to assist City workers install pipe. Excavation and loading of trucks resumes. H Fowler (PRI) on site to inspect progress. 1110 – Excavation has progressed to the third manhole. Tremolite has been observed in the spoil. City crew has exited containment for decon trailer. Crew continuing backfill of the trench between the second and third manholes. 1150 – Off site. 1500 – On site. Excavation of the sewer trench has been completed. Crew has deconned the trackhoe bucket and demobilized machine. City workers have installed the manhole and final piece of pipe. J Bache (ER) and R Eby are backfilling the trench along City Service Rd where the City has filled to within 18 inched of grade. Orange barrier is placed at the 18 inch level. City workers continuing backfill of the trench between the second and third manholes. PRI – ER, CDM on site for progress meeting. Backfilling to continue tomorrow. City approved placing washed rock on the detention basins to facilitate drainage. 1600 – Crew washing the shoring box removing while removing from the trench allowing the water to drain in to the trench. Large pieces of tremolite observed in the spoil from sta 7+50 to sta 7+98. Off site. 1700 – R Eby reports 6 loads of common fill and 1 load of topsoil delivered today.

Results of QA inspections and tests deficiencies observed

- ER-PRI crew using proper PPE
- Observed city workers staying in the shoring box as requested.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/21/12

<div> <div> <div> <div></div> <div></div> </div> <div> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY </div> </div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/22/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 50's showers PM – 50's – 60's cloudy with showers
<p>CQC Inspection phases attended and instruction given:</p> <p>0810 – On site. J Bache, R Eby (ER) on site backfilling top 18 inches of the sewer trench. Overnight rain has soaked site and there are large puddles of water surrounding the trench and water is trapped in the trench. Requested crew not to place common fill over water. 0830 – City crew on site to continue backfill of the trench to within 18 inches of surface. M Gipson on site and directs ER crew to drain the water in the trench towards the second manhole before filling. K Davis on site to check lines and grades. 0930 – Off site. 1110 – On site. Rain has continued throughout the morning and the area surrounding the trench has turned to 3 to 4 inches of mud from the constant tracking of equipment. Also observed the dirt in the trench is pumping due to the fill being wet. Reported issue to M Gipson. Also observed the trench the city workers are filling is soft and pumping with the compactor vibrating the water from the dirt. Suggested to workers they may want to find drier dirt where the trench crosses the new road. Informed J Steeber (PRI) of issue. 1130 – M Gipson on site and directs J Bache to level muddy area as best as possible and prepare site for demob to work on other properties in the afternoon. 1150 – City workers to continue backfill. Off site. 1300 – Attended progress meeting at PRI office to review remaining work to perform and schedule. EPA, ER, PRI, CDM attended. 1500 – On site. J Hammond (Libby), J Steeber on site to meet about the electric trench to excavated tomorrow. Pole to be removed on Thursday after the electric is connected to the Search and Rescue Bldg. R Eby has reported 6 loads of common fill were delivered today. City workers have completed backfill of the trench across the new road. Soft areas and areas where the soil is pumping observed. 1620 – Off site.</p>		
<p>Results of QA inspections and tests deficiencies observed</p> <ul style="list-style-type: none"> ER-PRI crew using proper PPE 		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p>		
<p>Has anything developed on the work which might lead to a change order or finding of fact?</p>		

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/22/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/23/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 50's showers PM – 50's – 60's cloudy with showers
CQC Inspection phases attended and instruction given: 0845 – On site. No restoration to take place due to wet conditions. City workers on site deconning their roller compactor that was used in the trench. Off site. 1545 – On site. Inspected site BMP's and completed SWPPP checklist. No issues observed 1630 – Off site.		
Results of QA inspections and tests deficiencies observed		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/23/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 5/23/12

Weekly() Pre-Storm() Post-Storm (X)

Time On-site: 1545

Time Off-site: 1625

Site has received approximately .75 inches of rain since 5/21. No water or sediment has migrated from site. BMP's along the river bank are intact. No storm water issues have been observed.

Office Trailer Checked? Trailer checked. Trailer is off site.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (**(X)** No ()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No ()

Comments: Silt fence along the RR property has been removed to facilitate construction of the berm. Straw wattles have been placed in critical areas.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact.

Notes: Pictures taken of current site conditions.

Signature:

Date

5/23/2012

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/24/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 40's - 50's cloudy PM – 50's cloudy
<p>CQC Inspection phases attended and instruction given:</p> <p>0845 – On site. No site work to take place today due to wet conditions. City of Libby crew on site to excavate trench and install underground electric from the new pole to the Search and Rescue Bldg and across City Service Rd to an area where receptacles will be installed. Plastic sheeting given to R Carlson (Libby) for spoil from the trench to be placed on. Crew instructed to leave trench 1 foot below surface for PRI – ER to backfill. 0930 – Off site. 1310 – On site. City has approximately 30 feet of trench opened. No vermiculite observed in the spoil. RC reported he did not think excavation could be completed today and City workers would complete work tomorrow. Reported issue to J Steeber (PRI) as no project removal activity was to take place tomorrow. 1415 – Off site. 1500 – On site. 1545 – PRI has been on site to check progress. H Fowler informed City crew should have the electrical conduit installed, trench filled to 1 foot of the surface and will be ready to be backfilled with structural and the excess spoil loaded. K Davis has been on site replacing subgrade points that were lost while the sewer line was installed. Off site. 1630 – H Fowler reports spoil left from trench excavation to be barricaded and loaded tomorrow along with the spoil from the remaining trench to be excavated.</p>		
Results of QA inspections and tests deficiencies observed		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant,		

material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/24/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/25/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 40's - 50's cloudy PM – 50's – 60's cloudy
CQC Inspection phases attended and instruction given: 0810 – On site. 2 ER workers on site loading the excess spoil from the utility trench on a dump truck for disposal at the mine. Cat backhoe has been mobilized to load soil. 2 City workers on site to continue excavating the trench to install conduit placing the spoil on plastic and backfilling the trench with bedding sand and crushed material. 0850 – Off site. 1000 – On site. Crew has loaded 1 truck. Plastic the spoil was placed on has been removed from the soil and placed in an ACM bag. H Fowler on site to take the loaded truck to the ER office and bring an empty truck back. No removal activity taking place today and the mine is closed. 1030 – HF on site with an empty truck. City workers have completed saw cutting the road and have started excavation on the road crossing. 1315 – On site. City crew has excavated halfway across the road, installed the conduit and is backfilling the trench allowing traffic to pass on the undisturbed section of the road. ER has loaded 3 trucks for disposal at the mine. No vermiculite observed in the excavated soil. 1615 – Conduit has been installed close to the road (north) edge and crew has backfilled and compacted the trench and is off site. 1630 – H Fowler on site with empty truck to remove the excess soil in front of the Search and Rescue Bldg. 1720 – Trench has been backfilled and the open ends barricaded. Site has been cleaned and trash removed. Off site.		
Results of QA inspections and tests deficiencies observed		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/25/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	5/29/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 40's - 50's showers PM – 50's – 60's cloudy
CQC Inspection phases attended and instruction given: 0750 – On site. J Bache, R Eby (ER) on site to resume backfilling the sewer trench between the second and third manhole. K Davis and crew on site setting lines and grades. 0915 – City of Libby crew (2 workers) on site to complete the installation of electrical conduit from the new power pole to an area near the covered slab in Area 2. No vermiculite observed in the excavated soil. 0950 – Off site. 1345 – On site. ER crew continuing backfilling the sewer trench and have started placing common fill along side City Service Rd. City crew has completed installation of electrical conduit and have started backfilling the trench. H Fowler on site loading the soil from the trench on a dump truck for disposal at the mine. 1625 – PPR-ER, CDM have been on site for progress meeting. Restoration work to resume tomorrow in Area 2. Inspected site BMP's. No issues observed. Off site.		
Results of QA inspections and tests deficiencies observed <ul style="list-style-type: none"> ER crew wearing proper PPE. 		
Verbal instruction given to contractor: (Include names, reactions and remarks)		
Has anything developed on the work which might lead to a change order or finding of fact? No		
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.		

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/29/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 5/29/12

Weekly() Pre-Storm() Post-Storm (X)

Time On-site: 810

Time Off-site: 1615

Site has received approximately .5 inches of rain last night. No water or sediment has migrated from site. BMP's along the river bank are intact. No storm water issues have been observed.

Office Trailer Checked? Trailer checked. Trailer is off site.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (**(X)** No ()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? Yes(x) No()

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No ()

Comments: Silt fence along the RR property has been removed to facilitate construction of the berm. Straw wattles have been placed in critical areas.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact.

Notes: Pictures taken of current site conditions.

Signature:

Date

5/29/2012

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/30/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's - 50's cloudy
PM – 50's – 60's cloudy

CQC Inspection phases attended and instruction given:

0745 – On site. ER crew (J Bache, R Eby) onsite continuing backfilling the sewer trench and placing common fill in the low areas inside City Service Rd and the new road. RB reported 32 loads of common and 3 loads of crushed material were delivered yesterday. TRACK UTILITIES on site to excavate trench along side City Service Rd across from the Search and Rescue Bldg and tie in the new communication cables. K Davis on site to set lines and grades. 0930 – PRI-ER, USACE has been on site review restoration in Area 2 and coordinate activities. ER has mobilized a trackhoe to excavate the boat ramp and place rip rap. Off site. 1105 – On site. JB has started placing the OU-1 specified crushed material on the new road starting in front of the Search and Rescue Bldg. JB has been instructed to build the road shoulders 2 foot past the road edge with the material. Vibrating roller used to compact the material. City of Libby crew has been on site backfilling and compacting the first manhole. 1300 – On site. 1355 – Removal crew (M Kvapil ER QC) on site to begin excavation of Boat Ramp #2. 1430 – Removal crew has started excavating in front of the existing concrete on the boat ramp to facilitate pouring a concrete slab to tie in to the pre fabricated sections of the new ramp. 1500 – USACE, PRI-ER, CDM, have been on site for progress meeting. 1615 – Excavation in front of the concrete slab at Boat Ramp #2 has been completed. J Peltier (CDM) has been on site and collected soil sample form the area. Crew continuing excavation of the clean material on the ramp. Soil loaded for disposal at the mine. 1700 – M Kvapil reports 6 loads have been removed from the boat ramp today. K Davis checking elevations of the excavated area. TRACK UTILITIES has completed excavation of the trench and has started backfilling with crushed material. Trench spoil has been placed on plastic and will be loaded for disposal at the mine. No vermiculite was observed in the soil. Off site.

- Equipment on site – Restoration - Case Skid steer loader, Vibrating loader, Cat Grader (not used), pickup truck / Removal - Case trackhoe CX 160B, Case trackhoe CX 75 SR (not used), Decon trailer, generator, 2 dump trucks, pickup truck
- Personnel on site – Restoration crew - Operator, laborer / Removal crew – QC, operator, laborer, 2 truck drivers

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)			
Has anything developed on the work which might lead to a change order or finding of fact? No			
Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.			
Information, instructions or actions taken not covered on QCR report or disagreements:			
SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.) None noted			
REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.			
INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
Jim Sabo	5/30/12		

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

5/31/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's - 50's cloudy
PM – 50's – 60's cloudy

CQC Inspection phases attended and instruction given:

0810 – On site. ER crew (J Bache, R Eby) onsite continuing placement of base material on the new road and structural fill on the parking areas. Placement has progressed to sta 5+50 and the parking area north of that station. RB reported 17 loads of common fill, 15 loads of the OU-1 specified base material, 2 loads of topsoil, and 8 loads of structural fill were delivered yesterday. TRACK UTILITIES on site completing the tie in of the communication cables across City Service Rd from the Search and Rescue Bldg. F Munroe (ER foreman) supervising restoration and removal crews in Area 2. Workers are forming an area to pour a concrete slab against the existing concrete at boat ramp 2, placing 6 inches of topsoil under the top section of the bridge embankment, and shaping the top of the river bank to facilitate placement of rip rap. Generator has been mobilized to operate pumps and power tools. Contractor using the Case CX75SR trackhoe. 1000 – Crew has completed placement of topsoil under the bridge. Inspected area for 6 inches of cover. No issues observed. 1010 – Reshaping the river bank to receive rip rap has been completed. Workers that placed topsoil under the bridge are raking the east and west embankments and will install erosion matting when complete. J Steeber (PRI) on site to observe progress. 1115 – Placement of rip rap at the top of the river bank has started with the removal crew performing the work using the Case CX 160B trackhoe. Orange barrier placed on the subsurface. 1155 – Off site. 1305 – On site. TRACK UTILITIES have completed the tie in of communication cables, backfilled the trench and area off site. Construction of the form for the concrete slab in the boat ramp has been completed. Concrete truck is on site and workers are pouring the slab. 1640 – USACE, PRI-ER, CDM have been on site for progress meeting. Crew has completed pouring the concrete slab. Placement of road base has progressed to approximately sta 7+50. Crew has completed fertilizing, seeding, and placing erosion mat on the east embankment and have started on the west embankment. Rip rap placement at the top of the river bank has progressed from the east end of the bank to the power poles. Crew has constructed a box using 8 inch by 8 inch timbers to facilitate placement of fill around the poles. ER QC M Kvpil reports 4 loads removed for disposal at the mine and 30 loads of rip rap delivered today. 2 trackhoes on site. Only 1 trackhoe was used at a time.

- Equipment on site – Restoration - Case Skid steer loader, Vibrating loader, Cat Grader (not used), generator, pickup truck / Removal - Case trackhoe CX 160B, Case trackhoe CX 75 SR, Decon trailer, generator, 2 dump trucks, pickup truck
- Personnel on site – Restoration crew – Area 1 Operator, laborer, Area 2 – 6 laborers / Removal crew – QC, operator, 2 laborers, 2 truck drivers

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- Observed 2 bags of plastic in ACM bags have been left near the covered slab. Requested M Kvapil to have the bags picked up.
-

Verbal instruction given to contractor: (Include names, reactions and remarks)**Has anything developed on the work which might lead to a change order or finding of fact?**

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.**Information, instructions or actions taken not covered on QCR report or disagreements:****SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)**

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

5/31/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/1/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 50's cloudy
PM – 50's – 60's cloudy

CQC Inspection phases attended and instruction given:

0825 – On site. ER crew (J Bache, R Eby) onsite continuing placement of base material on the new road and structural fill on the parking areas. Vibrating roller used for compaction. Additional skid steer loader has been mobilized to place structural fill in the parking areas. R Eby reports 25 loads of structural fill and 27 loads of OU-1 base material delivered yesterday. J Grey (ER) is placing structural fill in the boat ramp parking area with a laborer to spot trucks. K Davis on site to check lines and grades. F Munroe supervising the restoration in Area 2. Rip rap is continuing to be placed along the river bank. Case CX 160 B trackhoe used. Crew placing track mats to access the river bank in front of the pavilion to complete placement of rip rap. Crew using Case CX 75 SR trackhoe. Fertilizing, seeding, and placement of the erosion blanket on the west embankment has been completed. 0915 – J Hubbard (USACE) has been on site to check progress. JH informed of the approximately 5 loads of soil from the utility trench that need to be loaded for disposal at the mine. H Fowler (PRI) reported he was not sure when he could have it removed. JH suggested to FM he might load the material before resuming excavation of the boat ramp. 1050 – Placement of rip rap on the bank in front of the pavilion has started. Rescue boat has been launched and ready for emergency rescue. F Munroe operating the trackhoe. J Steeber on site to check progress. 1110 – Off site. 1310 – On site. Placement of rip rap in front of the pavilion has been completed. Crew removing the track mats and cleaning the disturbed area. Crews continuing to place base material on the road and parking areas in Area 1 and placing rip rap in Area 2. 1545 – PRI-ER, CDM on site for progress meeting. Excavation of boat ramp to resume Monday. City of Libby workers to be on site to install the sumps in the Search and Rescue Bldg parking lot. Good progress made placing structural fill in the parking areas in Area 1. Placement of base material has progressed to approximately sta 10+00. Area 2 rip rap placement completed except where needed after the boat ramp is restored. 1710 - M Kvapil reports 17 loads of rip rap and 2 loads of 1½ washed rock delivered today. R Eby reports 131 loads of structural, 17 loads of OU-1 road base, and 10 loads of topsoil delivered today. Off site.

- Equipment on site – Area 1 - 2 Skid steer loader, Vibrating loader, Cat Grader (not used), generator. Area 2 – Case CX 75 SR trackhoe, Case CX 160 B trackhoe, 5 yard dump truck, Decon trailer and generator (not used), generator mobilized to operate pumps and power tools not used.
- Personnel on site – Restoration crew – Area 1 - 2 Operators, 2 laborers, Area 2 – Operator, 6 laborers

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- Observed ER dump trucks hauling structural fill not using tarps. USACE has approved for ER trucks to not tarp trucks when hauling clean material.

Verbal instruction given to contractor: (Include names, reactions and remarks)**Has anything developed on the work which might lead to a change order or finding of fact?**

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.**Information, instructions or actions taken not covered on QCR report or disagreements:****SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)**

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/1/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/2/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 50's rain
PM – 50's – 60's cloudy with rain

CQC Inspection phases attended and instruction given:

0735 – On site. ER crew (J Bache, R Eby) onsite continuing placement of OU-1 base material on the new road and structural fill on the parking areas. 4 ER trucks on site waiting to dump. Grader has been mobilized and operator grading the South parking area. F Munroe on site to supervise activities. Third Skid steer loader has been mobilized. R Sonju (ER) placing structural fill in the parking areas. Vibrating roller used for compaction. 2 workers in Area 2 continuing restoration. 1 ½ washed rock placed on the north side of the concrete pad above the rip rap. J Hubbard on site to observe progress. 0930 – 5 yard dump truck used for hauling structural fill has been parked. K Davis on site to check lines and grades. 0934 – Off site. 1021 – H Fowler (PRI) reports he will try to load some of the excess soil from the utility trench today. 1040 – On site. 10 yard and 5 yard dump trucks on site idle. Granite Crushed material has been spread on the South parking and grader is placing a thin layer to be compacted in to the structural fill. Crew in Area 2 placing structural fill from the utility pole on the west side of the bridge to form a road or walking path to the utility pole and pedestal on the east side of the bridge. 1155 – Off site. 1320 – On site. Placement of Granite material on the South parking lot completed. Grading of the Boat Ramp parking area started. Placement of structural fill to the pump house and on the walking path continuing. 1505 – Operator loading excess structural fill on the 10 yard dump truck that has been parked on site and moved to another parking area.. USACE has been on site to observe progress. 1520 – H Fowler has started loading the excess soil left from the utility trench excavation (4 trucks on site). Requested crew to place straw wattles at 2 critical locations along the river bank in Area 2. 1610 – Placement of OU-1 road base has progressed to approximately sta 13+00. Structural fill has been placed in the boat ramp parking area and is ready for Granite material to be placed. J Bache reports Remp has quit hauling for the day. Off site. 1700 – R Eby reports 30 loads of OU-1 road base, 30 loads of structural fill, and 20 loads of Granite crushed material delivered today.

- Equipment on site – 3 Skid steer loader, Vibrating loader, Cat Grader, Case CX 75 SR trackhoe (not used), Case CX 160 B trackhoe, Decon trailer and generator (not used), generator mobilized to operate pumps and power tools not used.
- Personnel on site - 4 Operators, 2 laborers

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/2/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/4/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 50's – 60's partly cloudy
PM – 50's – 70's partly cloudy

CQC Inspection phases attended and instruction given:

0820 – On site. ER crew (J Bache, R Eby) onsite continuing placement of OU-1 base material and structural fill on the new road and parking areas. Grader operator grading the boat ramp parking area. 3 workers placing 1 ½ washed rock on the detention basins leaving the straw wattles in place to be covered over with topsoil. Suggested earlier to J Steeber (PRI) wattles might be removed as they could cause a depression when they deteriorate and may prevent 6 inches of topsoil to be placed over them. 0930 – M Cirian (EPA), J Hubbard (USACE), PRI-ER on site for progress meeting and activity planning. 0940 – Informed D Repine (CDM) contractor plans to haul blacktop removed from City Service Rd to the mine. 1010 – DR reports USACE has directed contractor to haul blacktop to the landfill. Flathead Electric onsite. 1025 – Off site. 1115 – On site. Flathead Electric has disconnected the power and dropped the line to the Search and Rescue Bldg. 1155 – Off site. 1305 – On site. 1600 – Flat head Electric has connected the electric back to the Search and Rescue Bldg, removed 2 power poles and the transformer from the pole across from the S&R Bldg. Grader operator has been grading the topsoil along the RR property line. J Bache placing topsoil in the area between the new road and City Service Rd. Operator and 2 laborers has been performing finish work in Area 2. USACE, PRI-ER, have been on site for progress and planning meeting. Excavation for sump in front of the S&E Bldg and excavation to begin the tie in of City Service Rd to the new road to start tomorrow. 1650 – Off site.

- Equipment on site – 2 Skid steer loader, Vibrating loader, Cat Grader, Case CX 75 SR trackhoe (not used), Case CX 160 B trackhoe (not used), Decon trailer and generator (not used), generator mobilized to operate pumps and power tools not used.
- Personnel on site - 3 Operators, 3 laborers

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/4/12

<input type="checkbox"/> <input type="checkbox"/> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1 303 W Thomas St	DATE	6/5/12
	CONTRACT NO.	W9128F-11-D-0023
CONTRACTOR (Or hired labor) Project Resources Inc / Environmental Restoration		AM – 50's cloudy PM – 50's cloudy with showers

CQC Inspection phases attended and instruction given:

0800 – On site. Meet with F Munroe (ER) and review planned activities. Hard overnight rain will prevent crew from placing topsoil today. Excavation and placing road base to take place today. Removal crew setting up containment in front of the Search and Rescue Bldg to begin excavation for a drainage sump. Flag person and traffic control in place. K Davis and crew on site setting hubs for final grading of the new road. Grader operator continuing finish grade of the sub base of the boat ramp parking area. 3 Laborers on site raking the berm along the RR property line and staking lines for the parking areas. ER has demobilized the CX 60 B trackhoe. J Hubbard (USACE), PRI-ER on site observing progress. City of Libby workers installing frames and covers on their manholes. 0945 - Finish grading of the new road started at sta 3+00. Seeding crew foreman M Jenkins (ER) has started conditioning the soil using a skid steer with a conditioner attachment starting at the NW corner of the site. Observed the soil loosened approximately 4 inches. Inspected site BMP'S and completed SWPPP checklist. No issues observed. 1120 – City crew working with the removal crew installing the sump. Crew to set sump and backfill when excavation is complete. 1155 – Sump has been set. City has dumped 1 load of 4 to 6 inch rock. ER using the trackhoe to place the rock around the sump. 1310 – On site. M Cirian (EPA) on site with V Lawrence (Libby) to inspect progress. Flathead Electric has removed the electric pole near the covered slab and the remainder of the pole across from the S&E Bldg. Workers filling the detention basins with rock and grading the soil around them. 1600 – PRI-ER has been on site for progress meeting. Backfilling of the sump has been completed. Rain has slowed progress today. The new road has been finish graded to approximately sta 6+50. M Kvapil reports 13 loads of soil hauled to the mine, 2 loads of rock dumped around the sump, and 6 loads of common fill used to backfill the sump to grade. R Eby reports 2 loads of topsoil and 14 loads of OU-1 base material delivered. 1610 –Crew off site early due to rain.

- Equipment on site – 2 Skid steer loader, Vibrating loader, Cat Grader, Case CX 160 B trackhoe, Decon trailer and generator, generator mobilized to operate pumps and power tools not used.
- Personnel on site - 3 Operators, 6 laborers, QC, flag person

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/5/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 6/5/12

Weekly() Pre-Storm() Post-Storm (X)

Time On-site: 800 Time Off-site: 1615

Site has received approximately .7 inches of rain last night. No water or sediment has migrated from site. BMP's along the river bank are intact. Additional wattles have been added in critical areas. No storm water issues have been observed.

Office Trailer Checked? Trailer checked. Trailer is off site.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (**(X)** No ()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? NA

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No ()

Comments: Silt fence along the RR property has been removed to facilitate construction of the berm. Straw wattles have been placed in critical areas.

Inspections of Wattles and Filter Fabric: Yes(x) No()

Are wattles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact.

Notes: Pictures taken of current site conditions.

Signature:

Date 6/5//2012

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/7/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's - 50's partly cloudy
PM – 50's – 60's mostly cloudy

CQC Inspection phases attended and instruction given:

1000 – On site. Meet with H Fowler (PRI). HF reports grading and placement of Granite crushed material in the boat ramp parking area and some grading of the topsoil along the north property line to take place. No work yesterday due to rain and wet conditions. Limited work to take place today due to wet conditions. Trucks delivering crushed material to bring the parking area to sub grade before placing Granite crush. 1130 – Off site. 1415 – On site. Grading and placement of Granite crushed on the boat ramp parking area continuing. Vibrating roller used for compaction. H Fowler grading the topsoil area at the north property line. 1530 – USACE, PRI-ER on site for progress meeting. Removal activity to resume tomorrow. J Grey (ER) on site and has resumed conditioning of the topsoil at the SW corner of the site using a skid steer with a tilling attachment. 1600 – Off site. 1655 – R Eby (ER) reports 4 loads of structural fill and 9 loads of Granite crushed delivered today.

- Equipment on site – 1 Skid steer loader, Vibrating loader, Cat Grader, Case CX 160 B trackhoe (not used), Decon trailer and generator (not used), generator mobilized to operate pumps and power tools not used.
- Personnel on site - 1 Operator, 1 laborer,

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)

**Has anything developed on the work which might lead to a change order or
finding of fact?**

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

- No site work yesterday due to rain and limited site work today due to wet conditions.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/7/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 6/7/12

Weekly() Pre-Storm() Post-Storm (X)

Time On-site: 1000

Time Off-site: 1600

Site has received approximately .9 inches of rain last night. No water or sediment has migrated from site. BMP's along the river bank are intact. Additional wattles have been added in critical areas. No storm water issues have been observed.

Office Trailer Checked? Trailer checked. Trailer is off site.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (**(X)** No ()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? NA

Comments: none

Inspection of Silt Fence: Yes(x) No()

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No ()

Comments: Silt fence along the RR property has been removed to facilitate construction of the berm. Straw wattles have been placed in critical areas.

Inspections of Wattles and Filter Fabric: Yes(x) No()

Are wattles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact.

Notes: Pictures taken of current site conditions.

Signature:

Date

6/7/2012

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/8/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's - 50's rain
PM – 50's – 60's mostly cloudy

CQC Inspection phases attended and instruction given:

O800 – On site. Meet with F Munroe (ER). Removal crew (M Kvapil ER) on site to begin excavation to tie the new road in to City Service Rd beginning at sta 1+20. 0830 – Containment has been set up and lay down material has been spread on the soil area across from the Search and Rescue Bldg. J Peltier (CDM) on site to set perimeter air monitoring and perform personal air monitoring on the removal crew. 3 Trucks on site waiting to be loaded. Grading of the boat ramp parking area continuing. J Bache (ER) placing structural fill on the parking area west of the S&E Bldg. the safety fence has realigned to facilitate the work. K Davis on site to set lines and grades. 0900 – Excavation has started. 2 Flag persons and traffic control is in place. J Hubbard on site to observe progress. Fiber optic cable encountered and JH has authorized adjustments to the grade of the road to facilitate excavating around the cables. 0930 – Inspected the blacktop that has been removed and no vermiculite was observed. Blacktop to be taken to the Lincoln County Landfill for disposal as construction debris. 1000 – Requested M Fahland to ask City workers to slow down while traveling through the work zone. J Steeber (PRI) on site to observe progress. 1110 – Informed D Repine (CDM) there is not an excavation or restoration plan for the gravel parking area in front of the pavilion. Issue to be checked on. 1145 – Off site. 1300 – On site. 1415 – K Anderson (CDM) has been on site and collected a soil sample from the excavation that has been completed. JB has placed orange barrier on the sub surface and started backfilling with a 4 to 6 inch lift of 1 ½ washed rock. Excavation continuing west to tie the new road in to City Service Rd. 1600 – USACE, PRI-ER has been on site for progress meeting. Crew to work late today to complete the tie in on the north side of the road. Soil sample collected from the excavated area to facilitate continuing backfill of the road. K Anderson has been on site to pick up the perimeter and personal samples. Grading of the boat ramp parking area has been completed. Lot looks good. Back hoe mobilized this morning has not been used today. 1710 – Excavation has been completed. KA collects soils sample. Orange barrier has been placed and backfilling of excavation to be completed before crew leaves today. 1750 - J Hubbard (USACE) on site to observe progress. Off site. M Kvapil reported 20 loads of soil hauled to the mine and 3 loads of blacktop hauled to the landfill.

- Equipment on site – 1 Skid steer loader, Vibrating loader, Cat Grader, Case CX 160 B trackhoe, backhoe (not used), Decon trailer and generator, generator mobilized to operate pumps and power tools not used.
- Personnel on site - 3 Operator, 3 laborer, **QC**

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- 3 Soil samples, 2 personal, and 1 perimeter samples collected.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/8/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/9/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's - 50's cloudy
PM – 50's – 60's mostly cloudy

CQC Inspection phases attended and instruction given:

0735 – On site. Meet with F Munroe (ER). Removal crew (M Kvapil ER) on site to begin excavation on the south side of City Service Rd at sta 1+20 to make the tie in to the new road. North half of the road excavated yesterday has been backfilled to allow traffic to pass. Traffic control and 2 flaggers in place. Grading of the parking lots continuing and grading of the new road has resumed. 3 Laborers on site raking the topsoil at the edges of the parking lots. Laborers also placing more rock in the detention basins and raking topsoil and structural fill in the surrounding areas. F Munroe, H Fowler on site to supervise removal and restoration activities. K Davis on site to establish lines and grades. 0800 – Crew has started excavation. R Eby (ER) reported 4 loads of Granite crush, 8 loads of 1 ½ washed rock, and 4 loads of structural fill delivered yesterday. Perimeter air monitoring has been placed. 0945 – UASCE, PRI, on site to observe progress. 1130 – A Vivian (CDM) collects soil sample from the excavated area. Blacktop has been inspected for vermiculite as excavation progresses. No Vermiculite has been observed and the blacktop taken to the Lincoln County Landfill for disposal as construction debris. Skid steer with soil conditioner has been returned to site. Conditioning of the topsoil resumed at the SE corner of site. Additional Case skid steer loader has been mobilized. 1150 – Off site. 1315 – On site. Crew excavating for the drainage sump to be installed on the side of the new road. Contractor workers to set the sump, backfill with rock, place fabric over the rock, and set the cover to keep the excavation moving as the City of Libby workers are not on site today. 1415 – Sump has been set and backfilled. Workers have placed filter fabric over the rock. 1500 – Soil sample collected to facilitate backfill. 1530 – It was observed that City Service Rd was constructed with approximately 8-10 inches of 3 inch minus material overlain with 6 inches of crushed and 6 inches of blacktop with filter fabric laid under the 3 inch minus. All material appears to be clean fill. J Hubbard (USACE) has directed the contractor to decrease the excavation depth to 12 inches BG. 1655 – Excavation has been completed. Soil sample collected from the remainder of the excavation area. M Kvapil reports 26 loads of soil hauled to the mine and 6 loads of blacktop taken to the landfill. Crew to continue backfill and compaction of the road until both lanes can be opened. J Hubbard approved for the orange barrier not to be placed in the excavation areas where the filter fabric is left. Good progress made today finish grading the new road and preparing the topsoil area outside the new road for seed. 1710 – Off site.

- Equipment on site – 1 Skid steer loader, Vibrating loader, Cat Grader, Case CX 160 B trackhoe, Decon trailer and generator, backhoe, generator mobilized to operate pumps and power tools not used.
- Personnel on site - 4 Operator, 4 laborer, **QC**

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- 3 soil and 1 perimeter samples collected.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/9/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/11/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's - 50's partly cloudy
PM – 50's - 70's mostly sunny

CQC Inspection phases attended and instruction given:

0810 – On site. Meet with F Munroe (ER). Removal crew (M Kvapil ER) on site to begin removal of City Service Rd beginning where excavation stopped on Saturday 1/9. Crew setting up containment and preparing the parking area along side of the road to allow 2 lanes of traffic to pass. H Fowler (PRI) working with the restoration crew grading the swales along the new road, placing topsoil on the swales, Raising detention basins and grading the surrounding area, fertilizing and seeding the topsoil area outside the new road that has been prepared. R Eby reported 18 loads of structural fill delivered Saturday. 1030 – EPA, USACE, City of Libby, PRI-ER, CDM, have been on site for progress and activity planning meeting. Numerous grade adjustments approved to facilitate drainage and decreasing slopes approved. SW section of the site has been fertilized and seeded and accepted by the City to begin landscaping. Excavation crew has started removing the blacktop from City Service Rd. No vermiculite observed in the blacktop and is taken to Lincoln County Landfill for disposal as construction debris. 1155 – Off site – 1320 – On site. Excavation crew continuing removal of the blacktop from City Service Rd. Approximately 200 foot of blacktop removed in the AM. H Fowler with restoration crew continuing placing, grading topsoil in the NW corner of site. 1520 – USACE, PRI-ER has been on site for progress meeting. Contractor seeding crew has returned to resume conditioning the soil to approximately 3 to 4 inches deep at the SW corner of site. 1625 – J Hubbard (USACE) has directed contractor to install additional detention basins to facilitate drainage. 1715 – Approximately 400 foot of blacktop removed from the road today. M Kvapil reports 29 loads taken to the landfill today. Restoration crew to continue work on the outside of the new road tomorrow. Area is close to completion.

- Equipment on site – 2 Skid steer loader, vibrating loader, Cat Grader (not used), Case CX 160 B trackhoe, Decon trailer and generator, backhoe,
- Personnel on site - 3 Operator, 4 laborer, **QC**

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/11/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/12/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's - 60's partly cloudy
PM – 60's - 70's mostly cloudy

CQC Inspection phases attended and instruction given:

O800 – On site. Meet with F Munroe (ER). Removal crew (M Kvapil ER) on site to continue removal of the blacktop from City Service Rd. Traffic control and 2 flaggers in place. H Fowler (PRI) working with the restoration crew grading the swales along the new road, placing topsoil on the swales, and grading topsoil on the edge of the new road and parking areas. F Munroe reports he will install 4 additional detention basins. CX 50 trackhoe mobilized for excavation. 0835. FM begins excavation of a detention basin in the topsoil area between the new road and south parking area. 0900 – Excavation of basin completed. Basin excavated to approximately 3 inches above the orange barrier that was placed. 1030 – Excavation of detention basins west of the Search and Rescue Bldg, 2 basins in the swale north of the boat ramp parking area completed. All basins excavated to approximately 3 to 4 inches above the orange barrier. Crew has started placing rock in the basins. K Davis has recorded depth and set finish elevations. K Anderson (CDM) on site to collect soil sample if needed. No soil samples collected as excavation was above the barrier. H Fowler has ripped the common fill with the grader where topsoil needs to be placed inside the new road and topsoil is being delivered and spread. 1150 – Removal of blacktop to the station where the east tie in will be made has been completed on the south side of the road. Contractor had to remove half of the road for the last 300 feet to allow traffic to pass. Crew has removed the guard rail to facilitate the tie in. Off site. 1320 – On site. Structural fill is being placed where the last 300 foot of blacktop removed for traffic to pass on. Workers are removing the guard rail on the north side of the road. Guard rails and posts were inspected for contamination and hauled to the city yard. 1355 – USACE has been on site to observe progress. 1415 – Removal of blacktop has resumed. Traffic has been routed to the south side of the road. 1435 – D Repine, J Mc Kenzie, (CDM), on site to observe progress. 1545 – USACE, PRI-ER, have been on site for progress and activity planning meeting. 1700 – Removal of the blacktop has been completed. Crew placing structural on the road to reopen both lanes. M Kvapil reports 29 loads of blacktop taken to the landfill and 6 loads of structural fill delivered. No vermiculite observed in the removed blacktop. Area of site on the outside of the new road is near completion. NW corner needs fertilizing and seeding and the NE corner outside the boat ramp parking area needs topsoil and grading. R Eby (ER) reports 15 loads of topsoil delivered today. Off site.

- Equipment on site – 2 Skid steer loader, vibrating loader, Cat Grader (not used), Case CX 160 B trackhoe, Decon trailer and generator, backhoe,
- Personnel on site - 3 Operator, 4 laborer, **QC**

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)**Has anything developed on the work which might lead to a change order or finding of fact?**

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.**Information, instructions or actions taken not covered on QCR report or disagreements:****SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)**

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/12/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/13/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 50's - 60's cloudy
PM – 60's mostly cloudy

CQC Inspection phases attended and instruction given:

0810 – On site. Meet with F Munroe (ER). Removal crew (M Kvapil ER) on site to setting up containment to excavate the road base material that was under the blacktop on City Service Rd. Excavation will extend to the south side of the road to tie in with area of site that was previously excavated. Overnight rain will slow restoration work until the soil can dry today. K Davis on site to check lines and grades. 2 workers placing constructing a walkway in the topsoil area between the new road and south parking area using timbers and gravel. 0845 – Excavation has started at the north end of the road. 0900 – Restoration crew (J Bache, R Eby, ER) area removing safety fence from the east end of City Service Rd and along Hwy 37. Fence to be realigned on the outside of the new road to deter vehicle and pedestrian traffic. 1030 - H Fowler on site with 5 laborers hand digging holes on the outside of the entrance road to the boat ramp parking area to facilitate the planting of trees. City worker has delivered mulch to be spread along the edge of the road. 1110 – M Cirian (EPA) on site to observe progress. 1200 – Off site. 1305 – On site. 1330 – Crew has completed excavating holes for tree planting and are off site. Restoration crew continuing removal and realignment of safety fence. 1515 – Soil sample collected from the excavated area. Orange barrier has been placed on the excavated surface. J Bache waiting on common fill to start backfilling. 1530 – PRI-ER has been on site for progress meeting. 1615 – Common fill delivered. JB begins backfilling. 1700 – Soil sample collected up to where excavation has been completed for day. M Kvapil reports 34 loads of soil taken to the mine today. 1750 – Attended tree planting ceremony. Approximately 30 people on site representing City of Libby, EPA, USACE, PRE-ER, CDM, Montana Dept Natural Resources planted 9 trees and spread mulch along the entrance road to the boat ramp parking area. Off site

- Equipment on site – 2 Skid steer loader, vibrating loader, Cat Grader (not used), Case CX 160 B trackhoe, Decon trailer and generator, backhoe,
- Personnel on site - 3 Operator, 4 laborer, **QC**

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- 2 soil samples and 1 perimeter sample collected.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/13/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/14/12

CONTRACT
NO.

W9128F-11-D-0023

CONTRACTOR (Or hired labor)
**Project Resources Inc / Environmental
Restoration**

AM – 40's - 60's partly cloudy
PM – 60's - 70's mostly cloudy

CQC Inspection phases attended and instruction given:

0815 – On site. Meet with F Munroe (ER). Removal crew (M Kvapil ER) on site to setting up containment to begin excavation of City Service Rd beginning at the east end (sta 14+50). Traffic control and flaggers in place. H Fowler on site working with the restoration crew grading the edges of the new road and parking lots. Topsoil is placed on the inside area of the new road. K Davis on site checking lines and grades. Crew staking stations along the new road to facilitate location of compaction tests to be done tomorrow. 1030 – K Anderson (CDM) on site to collect soil samples. KA to stay in containment and sample as excavation progresses. Crew to place orange barrier and backfill with structural fill to expedite reopening of the road. USACE has been on site to observe progress and authorize grade changes in the area of the east tie in to the new road. 1150 – Off site. 1300 – On site. 1405 – Excavation on the east end done for day to allow time for road to be backfilled enough for traffic to pass. K Anderson sampled the excavated area. Crew has moved to the west end where excavation was stopped yesterday evening. 1530 – USACE, PRI-ER, CDM on site for progress and planning meeting. K Davis reported concerned citizen DC Orr was on site near the pavilion approximately 1115. Orr questioned K Davis about the possible contamination of the traffic control devices the contractor has been using on the road and collected photos. H Fowler fertilizing and seeding the SW section of site. Skid steer with soil conditioner has been returned to site to condition the soil on the south side of the berm along the RR property line. 1710 – K Anderson has sampled the area that has been excavated. Approximately 300 feet of the road excavated today and should be completed tomorrow. M Kvapil reports loads 33 of soil taken to the mine and 14 loads of structural fill were delivered. J Bache placing common fill along the road edge to prevent a drop off. HF has completed fertilizing and seeding the area outside the new road. Off site.

- Equipment on site – 2 Skid steer loader (1 not used), vibrating loader, Cat Grader (not used), Case CX 160 B trackhoe, Decon trailer and generator, backhoe, farm tractor
- Personnel on site - 3 Operator, 4 laborer, **QC**

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- 4 soil samples and 1 perimeter sample collected.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/14/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/15/12

CONTRACT
NO.
TASK
ORDER

W9128F-11-D-0024

0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 40's - 60's sunny
PM – 60's - 70's mostly sunny

CQC Inspection phases attended and instruction given:

0810– On site. Meet with F Munroe (ER). Removal crew (M Kvapil ER) has resumed excavating (northern half of road) City Service Rd at the east end (sta 14+50). Traffic control and 2 flaggers in place. K Anderson (CDM) on has collected water samples from the city pump and potable water tank used for dust suppression. Personal air monitoring on site truck drivers also performed today. Seeding crew working in Area 2 are tilling, fertilizing, and seeding the topsoil area. Skid steer with tilling attachment used to condition the soil. Restoration crew (J Bache, R Eby), grading the parking lots east of the Search and Rescue Bldg and placing topsoil on the area inside the new road. RB reports 13 loads of topsoil and 6 loads of common fill delivered yesterday. 0845 – Requested J Bache to loosen the common fill that the topsoil is placed on. Off site. 0935 – On site. Observed that the common fill has not been scarified and JB continuing to place topsoil. JB reports H Fowler was directed by USACE that no scarifying of the soil was needed. 0950- Informed D Repine (CDM) of issue. 1055 – DR reports J Hubbard (USACE) on way to site. 1005 – JH on site and inspects surface of the common fill and calls HF to inform the surface needs to be scarified. 1100 – HF on site using the grader to rip the common fill. Topsoil has been placed over a large area that was not scarified and may create drainage problems due to the compaction of the common fill... Backfilling of the excavation area has started placing structural fill in 6 inch lifts and compacted with the vibrating roller... K Anderson in containment collecting soil samples as excavation progresses to facilitate backfill. 1145 – KA has collected soil sample. Seeding crew has started tilling the topsoil inside the new road using the skid steer with soil conditioner. Off site. 1400 – On site. Observed with J Steeber (PRI) weighing of the concrete blocks to be used for a performance test of a trackhoes capability to lift the weight required to set the sections of boat ramp. Block weighed 3340 lbs. 1545 – USACE, PRI-ER, Libby (J Hammond), CDM on site for progress and meeting. Plan to tie in the NE parking area in to the gravel parking in front of the pavilion agreed upon. J Hammond accepted the restoration o Area 2 from the east end to the end of the topsoil near the concrete slab and the area outside the new road from the area accepted on 6/16 to the parking area south of the S&E Bldg. Restoration crew grading the topsoil area in the boat ramp parking area. 1600 – Excavation completed for day. KA collects soil sample. Backfill continuing to open 2 lanes for traffic. 1705 – M Kvapil reports 33 loads taken to the mine and 14 loads of structural fill placed. Crew has moved 6 of the barricades from in front of the pavilion and placed along the embankment on the north edge of the road. Off site.

- Equipment on site – 2 Skid steer loader (1 not used), vibrating loader, Cat Grader, Case CX 160 B trackhoe, Decon trailer and generator, backhoe, farm tractor, skid steer with soil conditioner.
- Personnel on site - 3 Operator, 6 laborer, **QC**

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- 2 soil samples and 1 perimeter sample collected, 2 water samples, air monitoring performed on truck driver.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/15/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/16/12

CONTRACT
NO.
TASK
ORDER

W9128F-11-D-0024

0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 40's - 60's mostly cloudy
PM – 60's - 70's mostly cloudy

CQC Inspection phases attended and instruction given:

0810– On site. Meet with H Fowler. Limited activity to take place today. HF reports seeding crew to fertilize and seed the area inside the new road that has been prepared. 2 laborers installing safety fence along the outside of the new road. K Davis on site staking the tie in of the new road to City Service Rd. 0845 – Off site. 1010 – On site. 3 City workers on site planting trees in the topsoil area of the new parking lot. Crews continuing seeding and installing safety fence. 1115 – Off site.

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/16/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/18/12

CONTRACT
NO

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's cloudy
PM – 50's cloudy

CQC Inspection phases attended and instruction given:

0745 – On site. Meet with F Munroe (ER). Removal crew on site to begin excavating the boat ramp.
0800 – Safety meeting held related to the installation of the new boat ramp using the amour flex pad with empathies on lifting safety. USACE, PRI-ER performed a performance test on Saturday using the trackhoe that has been mobilized to lift the mats with the machine lifting concrete blocks exceeding the weight of the mats. No site restoration to take place due to overnight rain. 1000 – Crew has unloaded one truck load of mats using rigging supplied by the pad manufacturer and contractor the trackhoe is rented from. Spreader bar supplied from manufacturer not being used and the spreader bar fabricated by Thompson Construction used instead. J Hubbard (USACE) on site to observe lifting of the mats. 1145 – Crew off site after waiting for second load of mats. F Munroe reports excavation to start after lunch. 1310 – On site Crew has placed sand bags at the bottom of ramp to help prevent water from infiltrating. 1345 – Excavation has started. K Davis in containment with crew to check elevations. J Steeber (PRI) on site to check progress. Inspected site BMP'S and completed SWPPP checklist. No issues observed. 1500 – PRI-ER has been on site for progress meeting. J Hubbard has allowed contractor to use washed rock instead of structural fill due to the high water. 1600 – Excavation has been completed to install the first mat and make the tie in to the existing concrete. Soil sample collected and given to K Anderson (CDM). 1815 – Washed rock has been placed and graded and 2 mats have been set to tie in to the existing ramp M Cirian (EPA), J Hubbard (USACE), on site to observe activity. M Kvapil reported 7 loads of soil taken to mine and 1 load of washed rock delivered today. Off site.

- Equipment on site – Case CX 160 B trackhoe, Cat 320 trackhoe, Decon trailer and generator, Grader (not used), farm tractor (not used), generator mobilized to operate pumps and power tools, 10 yard dump truck on site and not used in the morning
- Personnel on site - 1 Operator, 2 laborer, **QC**

Results of QA inspections and tests deficiencies observed

- **ER crew wearing proper PPE.**
- **Rescue boat has been launched for emergency rescue.**
- **1 clean room, 1 perimeter sample and 1 soil sample collected**

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/18/12

Libby Asbestos Project Operable Unit 1 Inspection Form

Date of Inspection: 6/18/12

Weekly() Pre-Storm() Post-Storm (X)

Time On-site: 745

Time Off-site: 1815

Site has received approximately .75 inches of rain last night. No water or sediment has migrated from site. BMP's along the river bank are intact. No storm water issues have been observed.

Office Trailer Checked? Trailer checked. Trailer is off site.

Complete perimeter inspection completed? Yes (X) No()

Inspection of Perimeter Fence: Yes(x) No()

Is the fence intact? Yes (**(X)** No ()

Were repairs made? Yes() No() (NA)

Are the snow plow flags in place and visible? NA

Comments: none

Inspection of Silt Fence: NA

Is the fence intact? Yes (X) No()

Were repairs made? Yes() No ()

Comments: Silt fence along the RR property has been removed to facilitate construction of the berm. Straw wattles have been placed in critical areas. All silt fence has been removed and replaced with straw wattles where needed.

Inspections of Waddles and Filter Fabric: Yes(x) No()

Are waddles intact? Yes(x) No()

Were repairs made? Yes() No()

Comments: Straw wattles are intact.

Notes: Pictures taken of current site conditions.

Signature:

Date

6/18/2012

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/19/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's cloudy
PM – 60's partly cloudy

CQC Inspection phases attended and instruction given:

0745 – On site. Meet with F Munroe (ER). Removal crew on site to resume excavation of the boat ramp to set 2 more sections of the amour flex. Restoration crew (J Bache, R Eby) has returned to site mobilizing the Case skid steer loader and compactor roller and are finish grading the tie in of City Service Rd to the new road at the Search Rescue Bldg. 0840 – Off site. 0930 – On site. J Hubbard on site to observe progress. 1030 – Excavation to set 2 sections has been completed. K Anderson collected soil sample from excavated area. Vermiculite has been visible on the surface and in the side walls of the excavation particularly on the up river side. The edges of the sections set yesterday have settled and JH has approved for sections to be left low and concrete poured as specified. City of Libby workers on site to raise manhole and sump frames and covers to finish grade near the S&E Bldg. TCI has demobilized their grader. 1100 – Additional laborers on site to begin building forms and installing rebar for placement of concrete. Placement and compaction of structural fill in the ramp initiated. Excavation has been completed and 3 dump trucks remain on site. NTL on site performing compaction testing for City of Libby and reported company was contracted by WGM. J Bache grading the S&E Bldg parking areas. 1155 – Off site. 1325 – On site. Crew continuing to prepare the subsurface for the amour flex pads. Geo grid has been placed under structural fill with filter fabric over the fill. Workers are forming for concrete and installing rebar and dowels in to the existing concrete. 1340 – 3 dump trucks still on site Suggest to M Kvapil trucks may be needed elsewhere. 1345. M Kvapil dispatches trucks to another removal site. 1440 – 2 pads have been set. The tie in to the existing concrete is ready for concrete. Concrete truck on site. 1530 – Placement of concrete is complete. J Steeber (PRI), M Fahland (ER) on site to observe progress. 1645 – No further work to the boat ramp after pouring concrete. M Kvapil reports 4 loads of soil hauled to the mine today and 2 loads of structural fill delivered. Crew off site. Restoration crew continuing grade work around the S&E Bldg. 1700 – R Eby reports 17 loads of Wards crushed and 2 loads of structural fill delivered today. Off site.

- Equipment on site – 2 skid steer loaders, Roller compactor, Case CX 160 B trackhoe, Cat 320, trackhoe, Decon trailer and generator, farm tractor (not used), generator mobilized to operate pumps and power tools,
- Personnel on site - 2 Operator, 8 laborer, **QC**

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- Rescue boat has been launched for emergency rescue.

- 1 perimeter sample and 1 soil sample collected

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/19/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/20/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's – 60's mostly sunny
PM – 60's - 70's partly cloudy

CQC Inspection phases attended and instruction given:

0820 – On site. Meet with M Kvapil (ER QC) Removal crew on site to complete excavation of the boat ramp. Restoration crew (J Bache, R Eby) have mobilized a Case CX 75 trackhoe to expand the detention basin in the topsoil area between the new road and boat ramp parking area. CDM Engineering (Cody Moore) onsite to perform compaction tests on the new road. K Beadoin, AM Crites (CDM) on site to document the compaction results on the new road. K Davis recording test points. 0900 KB off site. 0930 – High visible vermiculite observed in the boat ramp excavation. M Cirian (EPA) on site and approves high visible can be left at 18 inches deep as the area will have geo net, 12 inches of structural fill, filter fabric, and the armor flex mats installed over. 1030 – JB has completed excavation of basin to approximately 8 feet deep and deconned the trackhoe bucket. 1 load of soil removed to the mine. No soil sample collected due to depth. Compaction worker injured his knee while collecting tests. Worker continued to perform compaction tests. 1050 – Wards crushed material delivered to tie in City Service Rd to the new road (east end). M Buss (USACE) has been on site to observe progress. Case CX 75 trackhoe demobilized. 1115 – Compaction testing completed. AMC reports approximately 30 tests performed with passing results and will escort worker to CDM office to complete an accident report. Extent of injury unknown. 1145 – Excavation has been completed for today. Excavation will have to be performed to anchor the final pads. K Anderson has collected soil sample. Crew has placed geo grid on the subsurface. Off site. 1400 – On site. Removal crew placing and compacting structural fill in the boat ramp. J Bache continuing grading road base for the east tie in and placing topsoil along the slopes of the new road. Washed rock has been placed in the detention basin. Filter fabric placed in the basin and wrapped around the rock. 1545 – USACE, PRI-ER have been on site for progress meeting. Plan for traffic to be routed to the new road tomorrow. 1630 – Removal crew continuing grading the boat ramp to receive the armor pads. No section to be set today. Restoration crew continuing placing road base, topsoil on the slopes, and resumed building the NE parking areas. M Kvapil reports 12 loads taken to the mine and 5 loads of structural fill delivered today. Off site.

- Equipment on site – 2 skid steer loaders, Roller compactor, Case CX 160 B trackhoe, Cat 320, trackhoe, Case CX 75 trackhoe, Decon trailer and generator, farm tractor (not used), generator mobilized to operate pumps and power tools (not used), backhoe
- Personnel on site - 2 Operator, 4 laborer, QC

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

- Rescue boat has been launched for emergency rescue.
- 1 perimeter sample and 1 soil sample collected

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/20/12

<div> <div></div> <div>INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY</div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
PROJECT - OU1 Density Testing		
CONTRACTOR (Or hired labor) PRI – ER JV	Weather:	50 Deg F. Mostly sunny.
<p>CQC Inspection phases attended and instruction given: 0800 C. Moore (CMG Engineering) on site to conduct density testing on the roadway at OU1. C. Moore is using a Troxler 3411 SN: 10223. C. Moore standardized the gauge in the CDM Smith parking lot. Reference FDTS DM-000443 and DM-000446 for testing results. 0827 On site at OU1. Held a tailgate meeting with A. Crites (CDM Smith), J. Sabo (CDM Smith), J. Davis (Davis Surveying) and C. Moore. Discussed the sampling locations. J. Davis asked that the sampling number start at 50. CDM Smith has asked CMG to conduct density tests at 50' intervals. Tests will be 6" BGS and collected for one minute. J. Sabo has informed K. Beaudoin (CDM Smith) that Wards structural fill was installed on the northwest portion of the roadway (stretch of road in front of the search and rescue building). CDM Smith does not have current proctors on the different material. CDM Smith is using the proctor for Remps OU1 structural fill which is 135.2 pcf with an optimum moisture of 8.5% A proctor will be collected for the Wards material and the density will be calculated when the proctor for Wards material comes in. 0848 K. Beaudoin off site. Density testing started. 0950 C. Moore injured his left knee while conducting density testing. C. Moore continues with sampling despite having some discomfort in his knee. 1145 CMG has completed density testing and has left the site. 1200 A. Crites and CMG filled out an injury report. 1400 A. Crites on site to collect confirmation proctors. Proctors collected from location 53 and 68 (see FDTS). 1500 A. Crites off site.</p>		
<p>Results of QA inspections and tests, deficiencies observed,</p> <p>SEE ATTACHED FDTS DM-000443 and DM-000446.</p>		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p> <p>NA</p>		

Has anything developed on the work which might lead to a change order or finding of fact?

NA

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

NA

Information, instructions or actions taken not covered on QCR report or disagreements:

NA

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

Subcontractor should review ergonomics of driving the density testing spike.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

NA

INSPECTOR'S SIGNATURE

DATE

**SUPERVISOR'S
INITIALS**

DATE

Kris Beaudoin

6-20-12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/21/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's – 60's mostly sunny
PM – 60's - 80's mostly sunny

CQC Inspection phases attended and instruction given:

O800 – On site. Meet with F Munroe. Crew to continue boat ramp construction. FM reports crew to place rip rap on up river side of the ramp before placing armor pads to prevent damaging pads with the trackhoe traveling on. Case CX 75 trackhoe has been returned to site for task. J Bache continuing placing structural fill in the NE parking area. Crew has repositioned the decon trailer, generator and potable water tank to facilitate work. R Eby reports 17 loads of Wards crushed material and 5 loads of topsoil delivered yesterday. K Davis on site setting lines and grades for crews. 1000 – D Repine (CDM) has reported M Cirian (EPA) has approved the use of the material removed from the parking in front of the pavilion to facilitate placement of 4 to 6 inches of topsoil to be used as sub base material at OU-5 or use at the landfill as refurbishing material. TCI's Cat grader has been returned to site and H Fowler (PRI) has ripped the common fill at the NE section of site. JB has started placing topsoil in the area. CDM sample coordinator has reported sample collected yesterday from the boat ramp at 2%. M Cirian had approved area not to be excavated to 3 feet as it was being capped with the boat ramp. City of Libby workers on site drilling a hole in the manhole in front of the pavilion to facilitate a sewer lateral to be installed. 1155 – Crew has set 2 pads at the boat ramp. J Steeber on site has directed workers to lift settled blocks in pad previously set to correct elevation. Workers using pry bars to lift the blocks and pack structural fill underneath. Off site. 1310 – On site. City workers have completed drilling a hole in manhole for the sewer lateral. Crew continuing placing riprap alongside the boat ramp and grading structural for the next 2 sections. JB placing topsoil at the NE corner of site. 1545 – UASACE, PRI-ER On site for progress meeting. Plan has been changed and traffic to be routed on to the new road tomorrow. Mod to be issued to eliminate topsoil area in front of the Search and Rescue Bldg. High water has started to erode the excavated bank at the boat ramp and the water is becoming muddy.. Requested F Munroe to place rip rap to prevent further erosion. 2 additional laborers on site begin raking topsoil around the boat ramp parking area and installing safety fence on the outside of the new road. 1630 – Removal crew has set up containment and started excavating the anchor trench for the last pad. 1800 – Excavation has been completed. Soil sample collected. Orange barrier that was placed during previous excavation observed. Crew has deconned the trackhoe bucket and are preparing the area for the pads. M Cirian on site to observe progress. H Fowler reported he would place rip rap in eroding area. Off site. 1910 – M Kvapil reports last pad has been set and crew to be off site approximately 1930.

Equipment on site – 2 skid steer loaders, Roller compactor, Case CX 160 B trackhoe, Cat 320, trackhoe, Case CX 75 trackhoe, Decon trailer and generator, farm tractor (not used), generator mobilized to operate pumps and power tools (not used), backhoe, 5 yard dump truck, Cat grader

- Personnel on site - 2 Operator, 4 laborer, QC

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- Rescue boat has been launched for emergency rescue.
- 1 perimeter sample and 1 soil sample collected

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/21/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/22/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's - 60's cloudy, light rain
PM – 60's – 80's partly cloudy

CQC Inspection phases attended and instruction given:

O800 – On site. Meet with F Munroe. FM reports removal crew to place rip rap alongside the boat ramp and repair grass areas that was damaged during rip rap placement while used as a stockpile area in March. Crew to resume excavation when traffic is routed on the new road and the crew installing the safety fence will take over repairing the area. Seeding crew on site tilling the top soil in the NE section of site. Skid steer with soil conditioner has been returned to site to till the soil. Inspected area for 6 inches of topsoil. No issues observed. 5 Workers placing safety fence on the side of the new road. J Bache (ER) grading parking areas in front of the Search and Rescue Bldg. Cat 320 trackhoe and 1 skid steer loader has been demobilized. 1000 – Excess rip rap is loaded and to be taken to the landfill for erosion control. Rip rap is small and has become mixed with dirt. Installation of safety fence along the new road completed. 1100 - Traffic has been routed on to the new road. Removal crew setting up containment to resume excavation of the remainder of old City Service Rd. Traffic control and 2 flaggers in place. 1155 – Seeding crew has completed fertilizing and seeding the NE area of site and off site. 1400 – On site. Excavating has resumed where stopped on 6/15 just west of the tie in of the new road to City Service Rd. J Bache continuing placing base material to complete the tie in of the new road. Operator and 2 laborers grading the grassed area between the 2 boat ramps removing excess rip rap and soil. 1550 – USACE, PRI-ER on site for progress meeting. USACE has approved for the last 2 sections (8 feet) of armor flex to be removed from the boat ramp to facilitate the transition to the gravel drive. Also approved excavation to continue tomorrow. 1600 – Top soil being placed and graded on the grass area between the 2 boat ramps. 1645 – M Kvapil reports 17 loads of soil taken to the mine, 3 loads of rip rap taken to landfill, 3 loads of soil taken for use at OU-5, and 3 loads of top soil delivered. R Eby (ER) reports 15 loads of topsoil and 5 loads of Wards crush material delivered yesterday 6/22 and 5 Wards crushed and 2 loads of 1 ½ rock from Remp delivered today. Off site

- Equipment on site – 1 skid steer loader, Roller compactor, Case CX 160 B trackhoe, Case CX 130 trackhoe, Case CX 75 trackhoe, Decon trailer and generator, farm tractor, generator mobilized to operate pumps and power tools (not used), backhoe, Cat grader
- Personnel on site - 3 Operator, 12 laborers, QC, Seeding crew (operator and 3 laborers) off site at 1200.

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- Rescue boat has been launched for emergency rescue.

- 1 perimeter sample

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/22/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/23/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's - 60's cloudy
PM – 60's - 70's cloudy, T showers

CQC Inspection phases attended and instruction given:

0815 – On site. Meet with F Munroe. Removal crew on site has resumed excavation and are currently excavating the detention basin at the bottom of the slope between the new road and road to the boat ramps. 2 flaggers in place for traffic control. K Davis on site to check lines and grades. 0845 – Perimeter sample has been placed. 1040 – Conduit has been uncovered and broke at a coupling exposing a telephone cable. Line has not been damaged and has never been located or documented on site drawings and appears to be an abandoned cable. B Broekemeier (USACE) on site to observe progress. 1115 – Off site. 1320 – On site. 1420 – M Buss (USACE) has been on site to observe progress. Small amount of sub surface has been exposed due to the depth (4 to 5 feet) of the cut. 1605 – Work has stopped due to a thunder storm. 1645 – Crew off site due to hard rain. Off site.

- Equipment on site – 1 skid steer loader, Roller compactor (not used), Case CX 160 B trackhoe, Case CX 130 trackhoe (not used), Case CX 75 trackhoe (not used), Decon trailer and generator, farm tractor (not used), generator mobilized to operate pumps and power tools (not used), backhoe, Cat grader not used
- Personnel on site - Operator, 2 laborers, QC, 2 flaggers

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.
- 1 perimeter sample
- Observed good decon of trucks and dust control

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/23/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/26/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's T storms
PM – 50's rain

CQC Inspection phases attended and instruction given:

0800 – On site. Meet with F Munroe. Crew on site loading soil that has been windrowed from the pavilion parking area. J Bache using some of the soil to backfill around the manhole and as subgrade material. Contractor demobilizing material used during removal and restoration activities. K Davis on site to check lines and grades. 0820 – Work has stopped due to lightening strikes and hard rain. 0900 – F Munroe reports no site to be performed. Workers to continue to remove materials and equipment not needed for restoration activities. Off site

- Equipment on site –
- Personnel on site -

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

- No site work after 0830 due to T storms and rain

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/26/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/27/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 40's – 60's mostly cloudy
PM – 60's – 70's partly cloudy

CQC Inspection phases attended and instruction given:

0800 – On site. Meet with F Munroe and H Fowler. Crew on site loading excess soil removed from the parking area in front of the pavilion, placing structural fill on the NE parking area and road to the boat ramps, and placing $\frac{3}{4}$ structural fill in the gaps in the armor flex pads. Workers packing the material in the spaces of the sections of flex pads. Cat grader and Case CX 75 have been demobilized. 1000 – Meeting with J Hammonds (Libby), J Steeber (PRI) to discuss parking area tie in to City property, line adjustments to the road to the boat ramp, and concrete pad at the top of the boat ramp. K Davis crew on site to set lines and grades and document changes. 1100 – B Brookmeier (USACE) has been on site to observe progress. Inspected site BMP's and completed SWPPP checklist. Requested J Steeber to have crew place erosion control matting on the embankment at boat ramp # 2. 1120 – Off site. 1320 – On site. J Bache continuing placing, grading, compacting base material on the NE parking area and road to the boat ramps. Crew forming for the concrete pad at the top of boat ramp #2. Operator using the Case 160 trackhoe has started scraping 2 inches of gravel and dirt from the gravel area around the pump pad and gravel areas at the top of the boat ramps to facilitate placing a clean crushed material surface. J Bache also placing common fill in the area east of sta 3+50 of the new road. 1540 – M Buss, B Brookmeier, (UASCE), PRI-ER, have been on site for progress meeting. USACE has authorized for crew to work late to meet 6/30 completion date. 1830 – Removal of gravel from area near the boat ramps and the pavilion parking area has been completed. J Wagner (ER) reports 10 loads taken to the mine. Restoration crew off site at 1730. Farm tractor has been demobilized and an additional skid steer has been mobilized. Placement of common fill (in front of the pavilion) from the NE parking area to near sta 3+50 has been completed and is ready for topsoil. Off site.

- Equipment on site – 1 skid steer loader, Roller compactor, Case CX 160 B trackhoe, generator mobilized to operate pumps and power tools (not used),
- Personnel on site - 2 Operator, 6 laborers

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/27/12

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**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/28/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 40's – 60's mostly sunny
PM – 60's – 80's sunny

CQC Inspection phases attended and instruction given:

0810 – On site. Meet with H Fowler (PRI). Crews on site placing and compacting base material in the NE parking area and road to the boat ramps, placing topsoil on the remaining area inside of the new road, and pouring the concrete at the top of boat ramp # 2. R Eby reports 12 loads of common fill and 34 loads of 1 ½ crushed used for road base delivered yesterday. K Davis on site to check lines and grades. 0925 – M Buss, B Brookmeier on site to observe progress. 1110 – M Cirian (EPA) has been on site to inspect. MC has directed contractor after discussion with J Hammond (Libby) to slope the NE parking area toward the pavilion to meet ADA requirements. 1130 – Third skid steer has been mobilized to assist placement of the topsoil. 1145 – Off site. 1305 – On site. Crews continuing placement of topsoil. Crew finishing the concrete at boat ramp #2 has completed task and are off site. 1340 - Check topsoil placement for depth and informed H Fowler placement is consistently at 4 inches instead of 6. 1530 – USACE has been on site for inspection with J Steeber (PRI). USACE has requested the boat ramp parking area be rolled again and the washouts caused by the recent rains be repaired and reseeded. 3 workers have been placing topsoil in the washouts. 1800 – Placement of topsoil in front of the pavilion has been completed and may need some additional grading. Inspected topsoil for depth and no issues found. J Bache has been placing topsoil on the slopes between the new road and the road to the boat ramps. Approximately 4 more loads needed. Crew has completed repairing the washouts on the slope along the new road and boat ramp parking area. Slope has been reseeded and erosion matting installed. M Kvapil reports 5 loads of common soil, 22 loads of 1 ½ crushed, 72 loads of topsoil (20 belly dumps) and 6.5 yards of concrete delivered today.

- Equipment on site – 3 skid steer loader, Roller compactor, Case CX 160 B trackhoe (not used),
- Personnel on site - 3 Operators, 5 laborers

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/28/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

6/29/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's – 60's mostly cloudy
PM – 60's – 70's partly cloudy

CQC Inspection phases attended and instruction given:

0800 – On site. Meet with H Fowler (PRI). HF reports plans for site restoration to be completed today. Placement of rip rap on the embankment at boat ramp # 2 will be delayed due to high river flow. Workers on site raking soil to the edges of the road, parking areas, and detention basins. J Bache (ER) placing and grading topsoil on the slope along the new road and road to the boat ramps. 0830 – Farm tractor and skid steer with soil conditioner has been returned to site. Operator begins tilling the topsoil placed yesterday to 3 inches deep. 0900 – B Broekemeier (USACE), R Burton, J Steeber (PRI) on site to observe progress. 0950 – Fertilizing and seeding the topsoil area between the NE parking area and road to the boat ramps has been completed. 1025 – Off site. 1110 – On site. Tilling of the soil in front of the pavilion has been completed. Crew spreading fertilizer and seed. J Bache spreading a layer of Granite crushed material (1 inch chips) from on the NE parking area and road to the boat ramps. 1345 – On site. Crews continuing placing crushed material on the NE parking area, road to the boat ramp, fertilizing and seeding, and raking the edges of the parking areas and road. 1445 – Inspected the site perimeter and road edges for signs of vandalism. No issues observed. Crew has started installing erosion matting on the slope off the new road (east end). 1800 – J Hammond, P Williams (City of Libby), B Broekemeier (USACE), R Burton, J Steeber (PRI) have performed a site walk. City of Libby has accepted all areas except an area from the pump house slab in Area 2 to approximately 200 ft west to facilitate placing rip rap and completing work to the boat ramp when the river flow decreases. Crew has completed installing the erosion matting on the slopes and is finishing installing safety fence around the seeded areas. Placement of topsoil, fertilizing, seeding, and placement of chips on the NE parking area and road to the boat ramp has been completed in the areas accepted by the City. Workers are demobilizing all equipment and materials used during restoration. Off site.

- Equipment on site – skid steer loader, Roller compactor, Case CX 160 B trackhoe (not used),
- Personnel on site – 2 Operators, 8 laborers

Results of QA inspections and tests deficiencies observed

- ER crew wearing proper PPE.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

6/29/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

7/17/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 60's – 70's mostly cloudy
PM – 70's – 80's cloudy with
showers

CQC Inspection phases attended and instruction given:

1020 – On site. 1030 – M Cirian (EPA), J Ayala, B Brookemeier (USACE), J Steeber (PRI), J Hammons (Libby) on site to inspect the north end of the site where water has covered City Service Rd road from the recent rains. 1120 – EPA has proposed to City of Libby to install a swale from the detention basin on the side of the road to north the property line. City of Libby to receive approval from the property owner to allow water to drain on to owner's property before work is to take place. Off site.

Results of QA inspections and tests deficiencies observed

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

- No site work after 0830 due to T storms and rain

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

7/17/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

7/19/12

CONTRACT
NO.

W9128F-11-D-0024-0002

CONTRACTOR (Or hired labor)
PRI-ER JV

AM – 60's – 70's sunny
PM – 80's – 90's mostly sunny

CQC Inspection phases attended and instruction given:

1605 – On site. Contractor crew on site to increase the size of 2 detention basins and install a swale to correct the drainage problem on the NW section of the site near the Search and Rescue Bldg. Contractor has mobilized a trackhoe and set up containment around the 2 basins. H Fowler has excavated the basin on the east side of the road to approximately 6 ft and filled basin with rock wrapped in filter fabric. K Davis Surveying on site to document depths. 1630 – Crew has secured site for night. 1 load of soil has been taken to the mine. Off site.

Results of QA inspections and tests deficiencies observed

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

- No site work after 0830 due to T storms and rain

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

7/19/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

7/20/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 60's – 70's mostly cloudy
PM – 70's – 80's cloudy

CQC Inspection phases attended and instruction given:

0845 – On site. Contractor crew on site has resumed excavation of the detention basin and swale on the west side of City Service Rd. H Fowler (PRI), QC, and laborer on site Track mats have been placed for trucks to travel on to prevent tracking of mud. 1005 – Off site. 1355 – On site. HF reports 9 loads of soil excavated from the detention basin and swale. Basin was excavated to approximately 8 ft deep and 8 ft wide. City of Libby supplying the rock to fill the basin and swale. Observed fines in the rock which may affect drainage. HF also informed material may not be from an approved source. The swale has been excavated to approximately 24 inches deep. Orange barrier placed on the excavated surface. 1430 - J Steeber (PRI) on site to observe progress. JS also informed material may not be from an approved source. SOW states City will provide the rock and work continues as stated. D Repine informed of issue. The neighbor has seemed to have changed his mind about allowing water to spill on to his property. JS informed J Hammon (Libby) of issue but will still construct the swale to do so. Rock has been placed in the basin and swale and wrapped with fabric. 1545 – J Ayala (USACE), R Burton, J Steeber (PRI) on site. USACE directs contractor to remove City supplied material to a depth to facilitate 18 inches of rock from an approved source and to not create a swale to drain water on the neighbor's property. 1620 – 1 load of rock has been loaded and taken to the mine. Crew securing site for the weekend. Off site.

Results of QA inspections and tests deficiencies observed

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

7/20/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

7/23/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 60's mostly sunny
PM – 70's sunny

CQC Inspection phases attended and instruction given:

0820 – On site. H Fowler and 2 laborers on site removing the City supplied rock from the detention basins to a minimum of 18 inches below ground surface. Modified level C PPE used. 0900 – Removal of rock completed. 3 loads taken to the mine. Crew placing filter fabric in the basins. HF to haul rock for the basins from the project storage yard. 0905 – Off site. 1335 – On site. Basins have been filled with rock to grade with straw wattles placed around the perimeter. Crew placing and grading topsoil around the basins to facilitate drainage to the basins. 1400 – Off site. 1610 – On site. Restoration near completed. HF reports crew will return tomorrow to finish raking the topsoil and demobilized equipment and material used during removal activities.

Personnel – operator, laborer

Equipment – trackhoe, dump truck

Results of QA inspections and tests deficiencies observed

- Crew using proper PPE

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

7/23/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

7/24/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 40's - 60's sunny
PM – 70's – 80's mostly cloudy

CQC Inspection phases attended and instruction given:

0955 – On site. 1110 – Inspected the trenches excavated the sprinkler contractor has excavated. No issues observed. City workers are raising the manhole cover to grade in City Service Rd near the Search and Rescue Bldg. Crew has excavated past the orange barrier and no contamination observed. Manhole was excavated around when the sewer line was installed. Clean fill was placed around the structure and orange barrier placed at 18 inches. Off site.

Results of QA inspections and tests deficiencies observed

Verbal instruction given to contractor: (Include names, reactions and remarks)

**Has anything developed on the work which might lead to a change order or
finding of fact?**

No

**Information on progress of work causes for delays and extent of delays, weather, plant,
material, etc.**

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

7/24/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

7/25/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 40's - 60's sunny
PM – 70's – 80's sunny

CQC Inspection phases attended and instruction given:

1445 – On site. 1530 – Inspected the trenches excavated the sprinkler contractor has excavated.
No issues observed. City workers on site grading and rolling City Service Rd. Road and parking lot
paving to resume tomorrow. Off site

Results of QA inspections and tests deficiencies observed

Verbal instruction given to contractor: (Include names, reactions and remarks)

**Has anything developed on the work which might lead to a change order or
finding of fact?**

No

**Information on progress of work causes for delays and extent of delays, weather, plant,
material, etc.**

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

7/25/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

7/27/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's - 60's sunny
PM – 70's – 90's sunny

CQC Inspection phases attended and instruction given:

1500 – On site. 1545 – Inspected the trenches the sprinkler contractor has excavated and observed installation of pipe and sprinkler heads. No issues observed with the trenching or backfill of the cover material. City workers on site have completed paving of the NE and boat ramp parking areas. Off site

Results of QA inspections and tests deficiencies observed

Verbal instruction given to contractor: (Include names, reactions and remarks)

**Has anything developed on the work which might lead to a change order or
finding of fact?**

No

**Information on progress of work causes for delays and extent of delays, weather, plant,
material, etc.**

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

7/27/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

8/10/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's - 60's sunny
PM – 70's – 90's mostly sunny

CQC Inspection phases attended and instruction given:

1045 – On site. J Bache (ER) on site placing topsoil on the area that was disturbed during placement of rip rap and spreading $\frac{3}{4}$ crush material on the approach to the boat ramp. City OF Libby workers have removed the excess rip rap. 1105 – Off site. 1555 – On site. Contractor has completed restoration work. R Eby (ER) reports 3 loads of topsoil and 6 loads of crushed used. 1625 – Completed walk through of site with J Ayala (USACE), J Steeber (PRI), J Hammon (Libby). No issues noted. Off site

Personnel - operator, 1 laborer

Equipment – Case skid steer loader, roller compactor.

Results of QA inspections and tests deficiencies observed

- Crew using proper PPE
- Observed crew taking precaution not damage new blacktop.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or

finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

8/1012



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

8/1/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's - 60's sunny
PM – 70's – 80's sunny

CQC Inspection phases attended and instruction given:

1140 – On site. Observed City crew placing soil along the edge of the blacktop on City Service Rd. Crew did not know if the material was an approved backfill. Informed D Repine (CDM). H Fowler on site with 2 workers instructing where to place BMP's near the swale on the north property line. 1200 – Off site. 1405 – DR requests locating the source of fill City using along the road. 1430 – J Hammonds (Libby) reports the material was from the stockpile at the city yard. Material was used to backfill around the sewer pipe at OU-1 and has been sampled. PRI – ER workers have installed straw wattles in the swale on the north property line. 1530 – AM Crites (CDM) confirms the material the city is using has been sampled and will check the stockpile for added material.

Results of QA inspections and tests deficiencies observed

Verbal instruction given to contractor: (Include names, reactions and remarks)

**Has anything developed on the work which might lead to a change order or
finding of fact?**

No

**Information on progress of work causes for delays and extent of delays, weather, plant,
material, etc.**

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

8/1/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

8/6/12

CONTRACT
NO.

W9128F-11-D-0024-0002

CONTRACTOR (Or hired labor)
PRI-ER JV

AM – 50's - 60's sunny
PM – 70's – 80's mostly cloudy

CQC Inspection phases attended and instruction given:

1100 – On site. 1145 – Attended preparatory meeting to complete placing rip rap between the boat ramps with M Buss, B Brookemeier (USCAE), D Repine CDM), R Burton, H Fowler (PRI), F Munroe (ER), J Hammon Libby). Contractor to begin work 8/8 am at 0400 to allow cooler temperatures prevent damage to the new blacktop. Off site.

Results of QA inspections and tests deficiencies observed

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)
None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

8/6/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

8/7/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's - 60's sunny
PM – 70's – 90's sunny

CQC Inspection phases attended and instruction given:

0745 – On site and meet with F Munroe (ER). FM reports crew will be on site today to complete placing $\frac{3}{4}$ crush in the Armor Flex pads at Boat Ramp #2 and set site up for removal activities. Case Trackhoe has been mobilized. 0900 – J Bache, R Eby (ER) on site to launch the boat for emergency rescue. 1000 – Crew has started placing and compacting structural fill in the pads. Case skid steer loader mobilized. Decon trailer has been mobilized. 1030 – FM and H Fowler (PRI) on site to check progress. Vender arrives with 3 light plants for use tomorrow morning. Site set up continuing. 1115 – Off site

Results of QA inspections and tests deficiencies observed

- Crew using proper PPE
- Boat launched for emergency rescue
- Observed crew taking precaution not damage new blacktop.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or

finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

8/7/12

□□

**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

8/8/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's - 60's partly cloudy
PM – 70's – 90's partly cloudy

CQC Inspection phases attended and instruction given:

0400 – On site. H Fowler) PRI) has been on site and stored the 2 light plants. Contractor mobilizing Case C160 Trackhoe. 0430 - Exclusion zone has been established using T- posts and tape. Removal of the overburden on the bank down river of boat ramp 2 to facilitate placement of rip rap has started. J Steeber (PRI), F Munroe (ER) onsite to observe progress. 0715 – Excavation has been completed. No soil sample required as overburden has exposed the orange barrier from the previous removal. Contractor to install new barrier before placement of rip rap. Off site.

Personnel - QC, operator, 2 laborers

Equipment – Case C160 trackhoe, Case C 75 trackhoe, 2 light plants, decon trailer, generator

Results of QA inspections and tests deficiencies observed

- Crew using proper PPE
- Boat launched for emergency rescue
- Observed crew taking precaution not damage new blacktop.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

8/8/12



**INSPECTORS QUALITY ASSURANCE
REPORT (QAR) DAILY LOG OF
CONSTRUCTION MILITARY**

The OCR WILL BE ATTACHED TO OR FILED WITH
THE QAR.

REPORT NO.

PROJECT - OU-1 303 W Thomas St

DATE

8/9/12

CONTRACT
NO.

W9128F-11-D-0024-0002

**CONTRACTOR (Or hired labor)
PRI-ER JV**

AM – 50's - 60's sunny
PM – 70's – 80's partly cloudy

CQC Inspection phases attended and instruction given:

0700 – On site. Contractor crew on site completing placement of rip rap at Boat Ramp #2. F Munroe (ER) on site to direct crew. Observed the orange barrier through the rip rap in some places and requested crew to adjust or add rock in those areas. Also requested additional rock added to even the slope. M Kvapil reports 6 loads of soil excavated and taken to the mine yesterday. 0755 – Off site. 1320 – On site. M Fahland (ER) on site observing progress from his truck. Placement of rip rap has been completed. River bank looks good. Excess rip rap has been piled and will be left for the City of Libby to remove. 2 loads of soil have been removed from the top the bank that was disturbed during placement of rip rap. Soil was disposed of at the mine. Case CX 75 trackhoe and the 3 light plants have been demobilized. 1400 – Informed H Fowler the sprinkler contractor would like to repair the sprinkler heads after placement of the topsoil and before seeding in the disturbed area. HF reports topsoil will be placed over the area tomorrow. 1415 – M Fahland off site. 1435 - Crew has barricaded the entrance to the boat ramp and area off site. K Davis Surveying has been on site checking final elevations.

Personnel - QC, operator, 2 laborers

Equipment – Case C160 trackhoe, Case C 75 trackhoe, 3 light plants

Results of QA inspections and tests deficiencies observed

- Crew using proper PPE
- Boat launched for emergency rescue
- Observed crew taking precaution not damage new blacktop.

Verbal instruction given to contractor: (Include names, reactions and remarks)

Has anything developed on the work which might lead to a change order or finding of fact?

No

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

None noted

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

8/8912



OU1 Final Inspection Checklist

Date:

8/10/12

Description of Area Being Inspected:

AREA 2 EMERGENCY BOAT RAMP,
ADJACENT RIPRAP, AND ADJACENT
AREAS RESTORED.

*Attach map with area being inspected highlighted

Has the proper cap been installed over the area?

(Yes)

No

Was the remediation and restoration performed
according to the design and associated modifications?

(Yes)

No

Does the area allow for proper drainage?

(Yes)

No

Is the area complete per the design and ready to be
handed over to the City?

(Yes)

No

INCLUDING APPROVED MOOS.

Punchlist Items:

NONE

Comments:

THIS IS THE FINAL AREA TO BE
ACCEPTED. ALL AREAS COMPLETE
AND ACCEPTED BY THE CITY OF LIBBY.

Signatures below indicate that the area is complete, and that all USEPA tasks have been accomplished
for the area.

Signatures:

QC Representative:

Date: 8/10/12

TQA Representative:

Date: 8/14/12

City Representative:

Date: 8/10/2012

USACE Representative:

Date: 8/10/12

EPA Representative:

Date: 8/14/12



OU1 Final Inspection Checklist

Date:

6/29/12

Description of Area Being Inspected:

ALL REMAINING WITH THE EXCEPTION
OF THE EMERGENCY BOAT RAMP
AREA

*Attach map with area being inspected highlighted

Has the proper cap been installed over the area?

Yes

No

Was the remediation and restoration performed
according to the design and associated modifications?

Yes

No

Does the area allow for proper drainage?

AS DESIGNED
PLUS

Yes

No

Is the area complete per the design and ready to be
handed over to the City?

INCLUDING APPROVED MAPS

Yes

No

Punchlist Items:

NONE

Comments:

NONE

Signatures below indicate that the area is complete, and that all USEPA tasks have been accomplished
for the area.

Signatures:

QC Representative:

Date:

6/29/12

TQA Representative:

Date:

6/29/12

City Representative:

Date:

6/29/2012

USACE Representative:

Date:

6-29-2012

EPA Representative:

Date:

8-14-12



OU1 Final Inspection Checklist

Date:

6/15/12

Description of Area Being Inspected:

1. AREA 1 "OUTFIELD" SOUTHWEST SIDE OF CSR.
2. AREA 2 TOP SOIL AREA

*Attach map with area being inspected highlighted

Has the proper cap been installed over the area?

Yes

No

Was the remediation and restoration performed according to the design and associated modifications?

Yes

No

Does the area allow for proper drainage?

Yes

No

Is the area complete per the design^{*} and ready to be handed over to the City?

Yes

No

* W/ APPROVED MODIFICATIONS

Punchlist Items:

NONE

Comments:

NONE

Signatures below indicate that the area is complete, and that all USEPA tasks have been accomplished for the area.

Signatures:

QC Representative:

Date: 6/15/12

TQA Representative:

Date: 6/15/12

City Representative:

Date: 6/15/2012

USACE Representative:

Date: 6/15/2012

EPA Representative:

Date: 6/21/2012



OU1 Final Inspection Checklist

Date: 6/11/12

Description of Area Being Inspected:

1. SE PORTION OF AREA 1
2. EASTERN PORTION OF AREA 2, FROM EDGE OF T.S. EAST

*Attach map with area being inspected highlighted

Has the proper cap been installed over the area?

Yes

No

Was the remediation and restoration performed according to the design and associated modifications?

Yes

No

Does the area allow for proper drainage?

Yes

No

Is the area complete per the design and ready to be handed over to the City? *

Yes

No

*W/ EXCEPTION OF APPROVED MODIFICATIONS

Punchlist Items:

NONE

Comments:

NONE

Signatures below indicate that the area is complete, and that all USEPA tasks have been accomplished for the area.

Signatures:

QC Representative:

Date:

6/11/12

TQA Representative:

Date:

6/11/12

City Representative:

Date:

6/11/2012

USACE Representative:

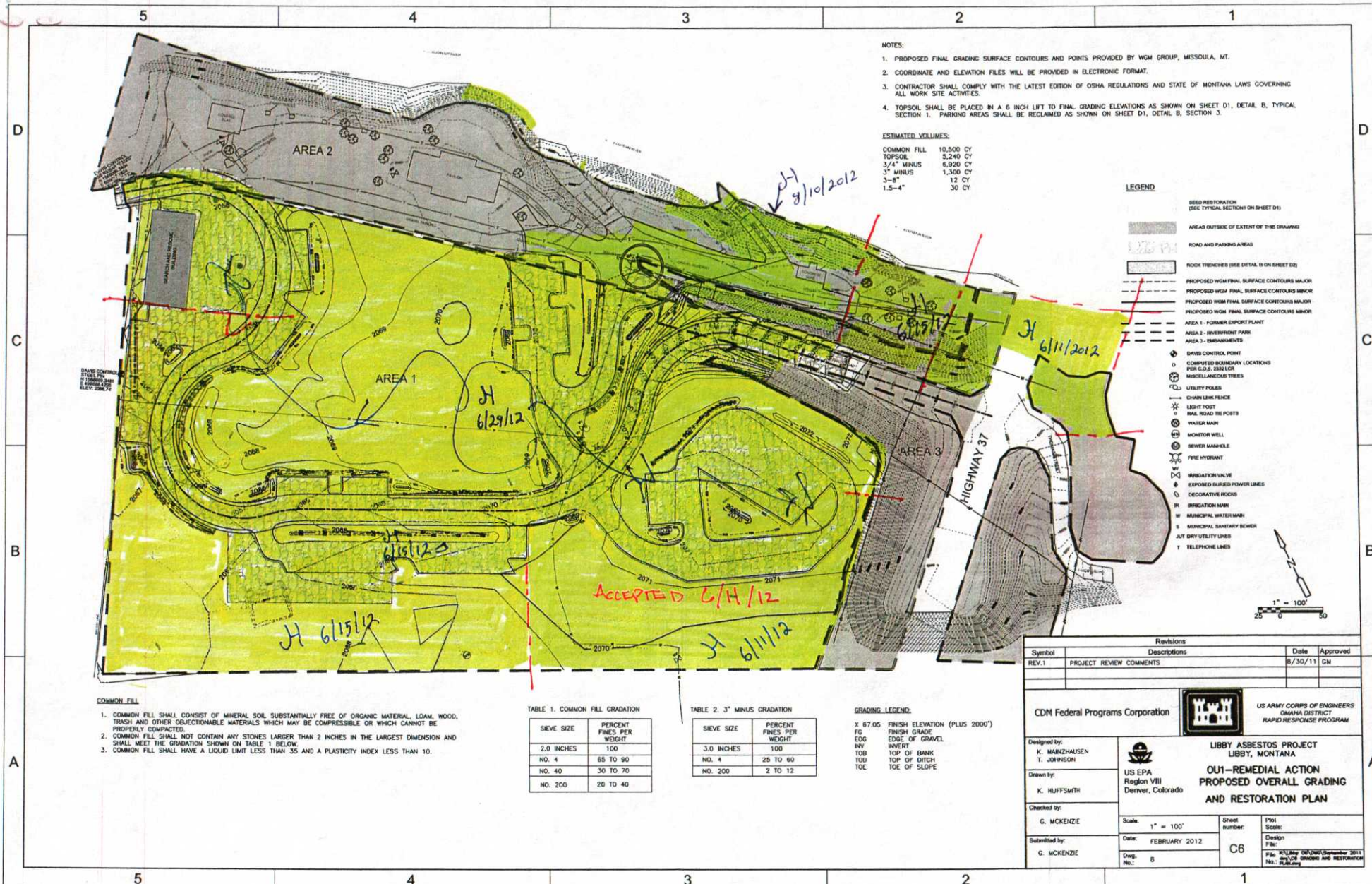
Date:

6/11/2012

EPA Representative:

Date:

6/11/12



<div> <div></div> <div> INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION MILITARY </div> </div>	The OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	
PROJECT - OU-1	DATE	10/18/12
	CONTRACT NO.	W9128F-11-D-0024-0002
CONTRACTOR (Or hired labor) PRI-ER JV		AM – 30's – 40's mostly sunny PM – 50's mostly sunny
<p>CQC Inspection phases attended and instruction given:</p> <p>0900 – On site with M Cirian (EPA), M Buss (USACE), H Fowler, J Steeber (PRI) to inspect the seeded area and determine areas to be reseeded. 0935 – EPA, USACE has directed contractor to apply additional wild flower seed to the area on the outside of City Service Rd and some thin areas around the boat ramp parking area. The areas along the slope on CSR are to be addressed in the spring. Off site.</p>		
<p>Results of QA inspections and tests, deficiencies observed,</p>		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p>		
<p>Has anything developed on the work which might lead to a change order or finding of fact? No</p>		

Information on progress of work causes for delays and extent of delays, weather, plant, material, etc.

Information, instructions or actions taken not covered on QCR report or disagreements:

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- None noted.

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

Jim Sabo

10/18/12

Field Density Test Summary (FDTS)

Client: USACE
 Project Name: Libby Asbestos
 Project Location: 303 W. Thomas St OU1
 Project Number: 6421.001.24.OU10S

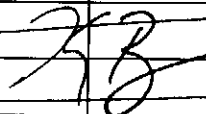
General Contractor: PRI
 Earthwork Contractor: ER

Date: 10-21-11 Page: 1 of 1

Technician: C. Moore (CMG)

DS = 2234 Passing = NA
 MS = 776 Passing = NA

Troxler Serial No: 21437

Test No.	Location	Fill Material Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	Sta 3+50 : 6' R of C	3" minus	wards	134.8	4.9	6	136.3	3.2	101.1	95	
2	Sta 4+00 : 6' L of C					6	132.9	3.1	98.6		
3	Sta 4+50 : 1' R of C						126.5	3.6	93.9		
4	Sta 5+00 : 5' L of C						129.5	3.1	96.1		
5	Sta 5+50 : at C						142.0	2.9	105.4		
6	Sta 6+00 : 7' R of C						139.1	3.4	103.2		
7	Sta 7+00 : 8' L of C						139.4	3.4	103.4		
8	Sta 7+49 : At C						141.6	3.3	105.1		
9	Sta 8+00 : 11' R of C						135.5	2.5	100.5		
10	Sta 8+50 : 13' L of C						138.0	4.4	102.4		
11	Sta 9+00 : 2' R of C						132.4	2.8	98.2		
12	Sta 9+51 : At C						138.3	3.4	102.6		
13	Sta 10+00 : 9' R of C						137.7	3.8	102.2		
14	Sta 10+50 : 5' L of C						138.0	2.9	102.3		
15	Sta. 4+50 : 3' R of C						131.8	3.3	97.8		
Sta. 6+50 was skipped Due to pumping in the soil											
 10-21-11											

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY = Side Yard

Field Density Test Summary (FDTs)

Client: <u>USACE</u>			General Contractor: <u>PRI</u>						Date: <u>10-21-11</u> Page: <u>1</u> of <u>1</u>		
Project Name: <u>Libby Asbestos</u>			Earthwork Contractor: <u>ER</u>						Technician: <u>Lo Moore (CMG)</u>		
Project Location: <u>Lincoln County Alley 101</u>									DS = <u>2234</u> Passing = <u>NA</u>		
Project Number: <u>6421.001.24.OU40S</u>									MS = <u>776</u> Passing = <u>NA</u>		
									Troxler Serial No: <u>21437</u>		
Test No.	Location	Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	SW end of Area A	SF 5/4" max	Remps	135.2	8.2	10	135.9	4.1	160.5	95	
2	50' N of SW end of Area A					10	128.5	2.2	95.0		
3	50' N of #2 E side					10	127.3	2.4	94.2		
4	50' N of #3 center					10	129.6	2.5	95.9		
5	50' W of #4 W side					10	127.6	2.4	94.3		
6	5' ^{from #4} 12 ^{from #5} from #5 center					4	132.1	2.2	97.7		
7	35' S from #6 center					4	128.8	2.4	95.3		
8	35' S from #6, #7 center	↓	↓	↓	↓	4	124.5	2.2	92.1	↓	

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY = Side Yard

Field Density Test Summary (FDTs)

Client: <u>USACE</u> Project Name: <u>Libby Asbestos</u> Project Location: <u>64 Granite Creek RD</u> Project Number: <u>6421.001.24.OU4OS</u>	General Contractor: <u>PRI</u> Earthwork Contractor: <u>ER</u>	Date: <u>10-21-14</u> Page: <u>1</u> of <u>1</u> Technician: <u>C. Moore (CMG)</u> DS = <u>2234</u> Passing = <u>NA</u> MS = <u>776</u> Passing = <u>NA</u> Troxler Serial No: <u>21437</u>
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Test No.	Location	Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	NW corner area E	SF 3/4" minus	Remps	135.2	8.2	10	127.0	4.7	93.9	95	
2	NE corner area E					10	125.9	4.9	93.1		
3	center area E					10	135.2	4.0	100.0		
4	E end of Area F					10	135.4	3.6	100.1		
5	SE corner of Area E					10	130.4	4.0	96.4		
6	N. end of Driveway					10	140.8	4.8	104.2		
10-21-14 6	50' S of #6		KRB	10-21-14			138.6	4.8	102.7		
7	50' S of #6	SF 3/4" minus	Remps	135.2	8.2	10	140.6	3.8	104.0		
8	50' S of #7						137.5	4.3	101.7		
9	50' S of #8						138.4	3.7	102.3		
10	50' S of #9						137.2	3.3	101.4		
11	50' S of #10						137.1	3.6	101.4		
12	50' S of #11						135.1	3.5	99.9		
13	S. end of area A						129.0	3.1	95.4		
14	75' N of area #13						134.3	3.4	99.3		
15	75' N of #14						130.3	2.6	96.4		
16	75' N of #15 west side						127.6	2.5	94.4		
17	75' N of #16 East side						123.0	1.9	91.0		
18	75' N of #17						135.0	3.0	99.9		

Notes:
1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY = Side Yard



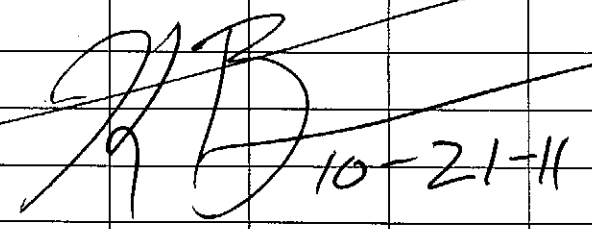
Camp Dresser & McKee Inc.

Sheet No.: DM - 000434

50 Hampshire Street
One Cambridge Place
Cambridge, MA 02135
(617) 452-6000

Field Density Test Summary (FDTs)

Client: <u>USACE</u>	General Contractor: <u>PRI</u>	Date: <u>10-21-11</u> Page: <u>1</u> of <u>1</u>
Project Name: <u>Libby Asbestos</u>	Earthwork Contractor: <u>ER</u>	Technician: <u>C. Moore (CMG)</u>
Project Location: <u>3421 Farm to Market Rd</u>		DS = <u>2234</u> Passing = <u>NA</u>
Project Number: <u>6421.001.24.OU4OS</u>		MS = <u>776</u> Passing = <u>NA</u>
		Troxler Serial No: <u>21437</u>

Test No.	Location	Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	S end area A east	SF 3/4" min	Remps	135.2	8.2	10	124.6	2.1	92.2	95	
2	50' N of #1 center						131.5	1.9	97.3		
3	50' N of #2 west						130.8	2.4	96.8		
4	50' N of #3 center						130.4	2.5	96.5		
5	50' N of #4 east						131.9	2.2	97.5		
6	100' N of #5 center						134.1	2.0	99.2		
7	100' N of #6 east						126.5	2.6	93.6		
8	NE corner of area A NAB 10-21-11						128.8	2.4	95.3		
											

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY = Side Yard

Field Density Test Summary (FDTS)

Client: <u>USACE</u>	General Contractor: <u>PRI</u>	Date: <u>10-21-11</u> Page: <u>1</u> of <u>1</u>
Project Name: <u>Libby Asbestos</u>	Earthwork Contractor: <u>ER</u>	Technician: <u>C. Moore (CMG)</u>
Project Location: <u>875 US Highway 2 OUS</u>		DS = <u>2234</u> Passing = <u>NA</u>
Project Number: <u>6421.001.24.00405</u> <u>KAB</u> <u>10-21-11</u>		MS = <u>776</u> Passing = <u>NA</u>
		Troxler Serial No: <u>31437</u>

Test No.	Location	Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	S. end area A W side	SF 3/4" minus	Ramps	135.2	8.2	10	131.0	4.1	96.9	95	
2	S. end area A W mid						141.0	4.2	104.3		
3	S. end area A E mid						138.0	4.9	102.1		
4	S. end area A E side						132.1	4.7	97.7		
5	mid area A E side						138.5	5.4	98.7		
6	mid area A center						133.6	5.9	98.8		
7	mid area A W side						136.5	4.3	101.0		
8	N. end area A W side						119.0	4.6	88.0		
9	N. end area A center						133.3	2.9	98.6		
10	N. end area A E side						134.8	5.1	99.7		

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY= Side Yard



Camp Dresser & McKee Inc.

50 Hampshire Street
One Cambridge Place
Cambridge, MA 02135
(617) 452-6000

Field Density Test Summary (FDTs)

Client: <u>USACE</u>	General Contractor: <u>PRI-HFS</u>	Date: <u>8-31-11</u> Page: <u>1 of 1</u>
Project Name: <u>Libby Asbestos</u>	Earthwork Contractor: <u>ER</u>	Technician: <u>C. Moore (CMG)</u>
Project Location: <u>City of Libby Alley 121</u>		DS = <u>NA</u> Passing = <u>NA</u>
Project Number: <u>6421.001.24.00405</u>		MS = <u>NA</u> Passing = <u>NA</u>
		Troxler Serial No: <u>10233</u>

Test No.	Location	Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	NW spot 15' S + 1' E from NW corner of Alley	SF 3/4-	Reps	131.0	7.5	10	126.3	1.6	96.4	95	1 min
2	" "						125.8	1.8	96.0		4 min
3	NW spot 26' S + 3 1/2' E from NW corner of Alley						133.2	2.3	101.7		4 min
4	" "						133.5	2.2	101.9		1 min
5	South center spot 38 1/2' S + 4' E from NW corner						127.8	1.7	97.5		1 min
6	" "						127.9	1.9	97.6		4 min
7	SE spot 62' S + 6 1/2' E from NW corner of Alley						133.4	2.5	101.8		4 min
8	" "						133.6	2.2	101.9		1 min
1	Proctor adjustment	NA	NA	134.6	8.8	NA	126.3	NA	93.8	95	NA
2	3R-01140						125.8		93.5		
3							133.2		99.0		
4							133.5		99.2		
5							127.8		95.0		
6							127.9		95.0		
7							133.4		99.1		
8							133.6		99.3		
<div>XB</div> <div>11-9-11</div>											

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY = Side Yard

$$\left(\frac{\text{Lab max Dry Density}}{\text{Field Dry Density}} \right) \times 100 = \text{Compaction Achieved \%}$$

Form Updated: 6/8/2010



Camp Dresser & McKee Inc.

50 Hampshire Street
One Cambridge Place
Cambridge, MA 02135
(617) 452-6000

Field Density Test Summary (FDTS)

Client: <u>USACE</u> Project Name: <u>Libby Asbestos</u> Project Location: <u>350 Florence Dr</u> Project Number: <u>6421.001.24.00405</u>	General Contractor: <u>PRI-HFS</u> Earthwork Contractor: <u>ER</u>	Date: <u>8-31-11</u> Page: <u>1</u> of <u>1</u> Technician: <u>C. Moore (CMG)</u> DS = <u>NA</u> Passing = <u>NA</u> MS = <u>NA</u> Passing = <u>NA</u> Troxer Serial No: <u>10223</u>
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Test No.	Location	Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	A East	SF 3/4-	Remps	131.0	7.5	4	126.1	5.0	96.2	95	1 min 1st Lift
2	"						126.5	4.8	96.6		4 min
3	A center						121.3	3.9	92.6		4 min
4	"						121.4	4.0	92.7		1 min
5	A West						124.5	3.1	95.0		1 min
6	"						125.4	2.8	95.7		4 min
7	A West					10	129.7	3.8	99.0		1 min 2nd Lift
8	A center						131.5	3.3	100.4		
9	A East						130.6	3.3	99.7		
1	Proctor adjustment	NA	NA	134.6	8.8	NA	126.1	NA	93.7	95	NA
2	3R-01140						126.5		94.0		
3							121.3		90.1		
4							121.4		90.2		
5							124.5		92.5		
6							125.4		93.2		
7							129.7		96.4		
8							131.5		97.7		
9							130.6		97.0		

Notes:

1. Test depth indicates troxer gauge depth.

FY = Front Yard

BY = Back Yard

SY = Side Yard

$$\left(\frac{\text{Lab Max Dry Density}}{\text{Field Dry Density}} \right) \times 100 = \text{Compaction Achieved \%}$$

Form Updated: 6/8/2010



Camp Dresser & McKee Inc.

50 Hampshire Street

One Cambridge Place

Cambridge, MA 02135

(617) 452-6000

Field Density Test Summary (FDTs)

Client: <u>USACE</u>	General Contractor: <u>PRI-HFS</u>	Date: <u>8-31-11</u> Page: <u>1</u> of <u>1</u>
Project Name: <u>Libby Asbestos</u>	Earthwork Contractor: <u>ER</u>	Technician: <u>C. Moore (CMG)</u>
Project Location: <u>64 Paulines Way</u>		DS = <u>NA</u> Passing = <u>NA</u>
Project Number: <u>6421.001.24.00405</u>		MS = <u>NA</u> Passing = <u>NA</u>
Common Fill spec Test w/ Babcock T650 spreader.		Troxler Serial No: <u>10223</u>

Test No.	Location	Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	CF spec Test SP #1 initial spread	CF	Noble	134.5	8.3	6	127.8	4.7	95.0	85	
2	SP #2 initial spread						124.4	7.1	92.5		
3	SP #3 initial spread						124.9	4.9	92.8		
4	SP 1-2 1 pass w/T650						125.6	7.1	93.3		
5	SP 2-2 " "						123.5	5.5	91.8		
6	SP 3-2 " "						129.8	6.8	96.5		
7	SP 1-3 2 passes w/T650						132.3	5.6	98.4		
8	SP 2-3 " "						122.0	5.3	90.7		
9	SP 3-3 " "						127.8	7.8	95.0		
1	Proctor adjustment	NA	NA	135.3	8.4	NA	127.8	NA	94.5	85	
2	3R-01139						124.4		91.9		
3							124.9		92.3		
4							125.6		92.8		
5							123.5		91.3		
6							129.8		95.9		
7							132.3		97.8		
8							122.0		90.2		
9							127.8		94.5		

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY = Side Yard

$$\left(\frac{\text{Lab Max Dry Density}}{\text{Field Dry Density}} \right) \times 100 = \text{Compaction Achieved \%}$$

Form Updated: 6/8/2010

$$\left(\frac{\text{Lab Max Dry Density}}{\text{Field Dry Density}} \right) \times 100 = \text{Compaction Achieved \%}$$

Field Density Test Summary (FDTS)

Client: <u>USACE</u>				Date: <u>8-31-11</u> Page: <u>1 of 1</u>							
Project Name: <u>Libby Asbestos</u>				General Contractor: <u>PRHFS</u>							
Project Location: <u>64 Paulines Way</u>				Earthwork Contractor: <u>ER</u>							
Project Number: <u>6421.001.24.00405</u>				Technician: <u>C. Moore (CMG)</u>							
				DS = <u>NA</u> Passing = <u>NA</u> MS = <u>NA</u> Passing = <u>NA</u> Troxler Serial No: <u>10233</u>							
Test No.	Location	Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	C East	SF 3/4-	Remps	131.0	7.5	4	126.1	4.2	96.3	95	1 min
2	C West	↓	↓	↓	↓	↓	126.0	2.9	96.2	↓	↓
3	B SW	↓	↓	↓	↓	↓	127.5	2.9	97.3	↓	↓
4	B Center	↓	↓	↓	↓	↓	127.3	4.1	97.2	↓	↓
5	B NE	↓	↓	↓	↓	↓	125.2	3.3	95.6	↓	↓
1	Proctor Adjustment.	NA	NA	134.6	8.8	NA	126.1	NA	93.7	95	NA
2	34-01140 ↓	↓	↓	↓	↓	↓	126.0	↓	93.6	↓	↓
3	↓	↓	↓	↓	↓	↓	127.5	↓	94.7	↓	↓
4	↓	↓	↓	↓	↓	↓	127.3	↓	94.6	↓	↓
5	↓	↓	↓	↓	↓	↓	125.2	↓	93.0	↓	↓

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY= Side Yard

$$\left(\frac{\text{Lab Max Dry Density}}{\text{Field Dry Density}} \right) \times 100 = \text{Compaction Achieved \%}$$

Form Updated: 6/8/2010



✓ SRA

Sheet No. DM -

000443

504 Hampshire Street
Cambridge Place
Cambridge, MA 02135
(617) 452-6000

Field Density Test Summary (FDTS)

Client: USACE
Project Name: Libby Asbestos
Project Location: Owl Rd.
Project Number:

General Contractor: PRI-ER

Earthwork Contractor: PRI-ER

* COMPACTION PERCENTAGES WERE RECALCULATED BY
JOSHUA SMITH, PE (CMG) FOLLOWING COMPLETION OF NEW
PROCTORS (ASTM D698) BY CDM SMITH.

Date: 6-20-12 Page: of

Technician: C. Moore (CMG)

DS = 1458 Passing = 0.87

MS = 536 Passing = 0.09

Troxler Serial No: 10223

Test No.	Location	Fill Material Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			* Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
50	Sta. 1+25 4' R of L	SF	WARDS	141.5	6.5	6	136.4	3.2	96.4	95	WARD 1 min SF
51	Sta. 1+75 At L						142.4	3.5	100.6		WARD SF
52	Sta. 2+25 10' L of L						135.1	3.1	95.5		WARD SF
53	Sta. 2+75 3' R of L						139.7	4.5	98.7		WARD SF
54	Sta. 3+80 3' L of L						139.7	3.5	98.7		WARD SF
55	Sta. 4+50 At L		REMPs	138.5	7.4		136.7	3.4	98.7		
56	Sta. 5+00 5' R of L						142.7	3.1	103.0		
57	Sta. 5+50 At L						143.4	3.0	103.5		
58	Sta. 6+00 10.8' L of L						140.3	3.2	101.3		
59	Sta. 6+50 5' R of L						146.4	3.2	105.7		
60	Sta. 7+00 At L						143.0	3.6	103.2		
61	Sta. 7+50 7' L of L						143.9	3.4	103.9		
62	Sta. 8+00 10' R of L						143.0	3.7	103.2		
63	Sta. 8+50 At L						138.8	3.0	100.2		
64	Sta. 9+00 5' L of L						141.8	3.3	102.4		
65	Sta. 9+50 7' R of L						140.1	3.0	101.2		
66	Sta. 10+00 At L						144.4	2.9	104.3		
67	Sta. 10+50 11' L of L						142.7	3.1	103.0		

Notes:

1 Test depth indicates Troxler gauge depth.

FY = Front Yard

BY = Back Yard

SY = Side Yard

Form Updated: 4/17/2012

Form Updated: 4/17/



000443

Field Density Test Summary (FDTs)

Client: USACE			General Contractor: PRI-ER						Date: 6-20-12 Page: 1 of 2		
Project Name: Libby Asbestos			Earthwork Contractor: PRI-ER						Technician: C. Moore (CMG)		
Project Location: 0u1									DS = 1658 Passing = 0.87		
Project Number: 642.002.025.050u1									MS = 536 Passing = 0.09		
									Troxler Serial No: 10223		
Test No.	Location	Fill Material Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
50	Sta. 1+25 4' R of L	SF	Remps	135.2	8.5	6	136.4	3.2		95	WARD 1 min SF
51	Sta. 1+75 At L						142.4	3.5			WARD SF
52	Sta. 2+25 10' L of L						135.1	3.1			WARD SF
53	Sta. 2+75 3' R of L						139.7	4.5			Proctor collected, WARD SF
54	Sta. 3+80 3' L of L						139.7	3.5			WARD SF
55	Sta. 4+50 At L						136.7	3.4	101.1		
56	Sta. 5+00 5' R of L						142.7	3.1	105.6		
57	Sta. 5+50 At L						143.4	3.0	106.0		
58	Sta. 6+00 16.8' L of L						140.3	3.2	103.9		
59	Sta. 6+50 5' R of L						146.4	3.2	108.3		
60	Sta. 7+00 At L						143.0	3.6	105.7		
61	Sta. 7+50 7' L of L						143.9	3.4	106.4		
62	Sta. 8+00 10' R of L						143.0	3.7	105.8		
63	Sta. 8+50 At L						138.8	3.0	102.7		
64	Sta. 9+00 5' L of L						141.8	3.3	104.9		
65	Sta. 9+50 7' R of L						140.1	3.0	103.6		
66	Sta. 10+00 At L						144.4	2.9	106.8		
67	Sta. 10+50 11' L of L						142.7	3.1	105.5		

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY = Side Yard

Field Density Test Summary (FDTS)

Client: <u>USACE</u> Project Name: <u>Libby Asbestos</u> Project Location: <u>303 W Thomas St Old-1</u> Project Number: <u>6421.001</u> <u>6421.002.025.05041</u>	General Contractor: <u>PRI-ER</u> Earthwork Contractor: <u>PRI-ER</u>	Date: <u>4/25/12</u> Page: <u>1</u> of <u>2</u> Technician: <u>C. C. Canner</u> DS = <u>1668</u> Passing = <u>.9</u> MS = <u>536</u> Passing = <u>.6</u> Troxler Serial No: <u>10223</u>
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Test No.	Location	Fill Material Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	6+50 2' L of &	3" minus	Ward	132.9	4.8	8	141.4	3.9	106.4	9.5	
2	11+00 11' L of &						138.9	3.3	104.5		
3	11+50 5' R of &						141.6	3.3	106.5		
4	12+00 &						138.2	3.3	104.0		
5	12+50 14' L of &						139.6	3.5	105.0		
6	13+00 8' R of &						143.2	3.8	107.7		
7	13+50 &						139.6	3.8	105.0		
8	13+75 7' R of &						147.0	3.5	110.6		
9	Subgrade point 571	SF	None	135.2	8.5	8	133.5	3.1	98.7		
10	" " 536						134.4	3.6	99.4		
11	" " 438						140.1	3.2	103.6		
12	" " 287						143.7	3.7	106.3		
13	" " 217						141.4	3.2	104.6		
14	" " 549						134.3	3.3	99.3		
15	5+70 15' L of &	3" minus	Ward	132.9	4.8	8	135.9	3.8	102.2		
16	8+50 15' R of &						134.0	2.9	108.0		
17	10+50 15' L of &						135.0	3.1	101.6		
18	Subgrade point 423	CF	None	132.0	7.1	6	130.6	3.4	98.9	8.5	

Reference page C-4 for
subgrade point locations

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY = Side Yard

Form Updated: 4/17/2012



Field Density Test Summary (FDTs)

Client: <u>USACE</u>			General Contractor: <u>PRI-ER</u>						Date: <u>4/25/12</u> Page: <u>2 of 2</u>		
Project Name: <u>Libby Asbestos</u>			Earthwork Contractor: <u>PRI-ER</u>						Technician: <u>C O'Conner</u>		
Project Location: <u>303 W Thomas St CU-1</u>									DS = <u>1668</u> Passing = <u>.9</u>		
Project Number: <u>6421.002.025.05041</u>									MS = <u>536</u> Passing = <u>.6</u>		
									Troxler Serial No: <u>10223</u>		
Test No.	Location	Fill Material Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
19	Subgrade point 490	CF	Noble	132.0	7.1	6	124.1	3.9	94.0	85	
20	" " 127	↓	↓	↓	↓	↓	124.8	4.6	94.5	↓	
21	" " 219	↓	↓	↓	↓	↓	132.0	6.0	100.0	↓	
22	" " 608	↓	↓	↓	↓	10	135.4	6.4	102.6	↓	
23	" " 608	↓	↓	↓	↓	4	131.5	6.1	99.6	↓	soil placed in AM
IS 4/25/12											

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY = Side Yard

Reference page C-41 for
subgrade point locations



000450

Field Density Test Summary (FDTS)

Client: USACE			General Contractor: PRI-ER						Date: 4-25-12 Page: 1 of 1		
Project Name: Libby Asbestos			Earthwork Contractor: PRI-ER						Technician: C. O'Connor		
Project Location: City of Libby Alley 104									DS = 1668 Passing = .9		
Project Number: 6421.002.025.05064									MS = 536 Passing = .6		
									Troxler Serial No: 10223		
Test No.	Location	Fill Material Common Fill (CF) Structural Fill (SF)	Off-Site Fill Source	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Comments
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (1) (in)	Dry Density (pcf)	Moisture Content (%)			
1	center of Alley westend	SF	Repts	131.0	7.5	10	134.6	3.2	102	95	15 sec Tests
2	N. Side of alley center of alley.						138.0	3.6	104.6		
3	1210 Dakota Driveway						134.8	2.6	102.1		
4	1210 Dakota Front Walkway						135.0	2.7	102.2		
5	City sidewalk in front of 1210 Dakota						135.6	3.3	102.7		
6	Alley Behind smoke shack City of Libby alley 121 E. end					6	138.4	3.1	104.8		
7	City of Libby Alley 121 W. end						138.9	3.9	105.2		
RB 4-25-12											

Notes:

1. Test depth indicates troxler gauge depth. FY = Front Yard BY = Back Yard SY = Side Yard

Appendix E

Change / Modification Logs



Libby Asbestos Project, Operable Unit 1

Change / Modification Log

Sheet 1 of ____

Item No.	Drawing No.	Description	Approved Y / N	Date
001	Sht C9	Approval for USACE to direct the installation of the SWPPP and modify the installation as needed without approval of the City of Libby.	Y	Verbal: 9/29/11 Written: 10/4/11
002	Sht C4	Tree removal and relocation of rock detention basin	Y	10/4/2011
003	Sht C4	Correction of Elevation Point 410, Cad Glitch	Y	10/12/2011
004	Sht D2, Detail D	Change to accommodate the storm water sumps which will be installed by the City. The removal contractor will excavate the locations (field determination) for the City's installation according to the City's available materials.	Y	10/12/2011
005	C6A	Relocate the sump from from the ENE, approximately 37' off of the NE Corner of the DTSAR building, in the new roadway to a field determined location, approximately SSW 10'.	Y	10/12/2011
006	Sht D2, Detail B	Change, the road sub-base materials from 6" of 3/4" minus crushed base course over 8" of 3" minus sub-base material, to 10" of 3/4" minus sub-base over at least 8" of 3" minus sub-base material.	Y	10/12/2011
007	Sht D1, Section 3	Parking areas sub-grade materials, the removal contractor will ensure a minimum thickness of 8" of 3/4" minus base course cap over the subgrade material that may be either 8" of 3/4" minus crushed or 3" minus fill sub-base for a total of 18" thickness.	Y	10/12/2011
008	Sht C4	Retain existing trees, large conifers, along the west boundary of Area 1. The trees were not shown on the plans. The parking area along the western perimeter of the site is to be adjusted to accommodate the trees.	Y	10/12/2011
009	n/a	Surveyor's elevation corrections.	Y	10/12/2011
010	n/a	Tree removal, remove cottonwood trees at SW corner of Area 1 due to visibly high vermiculite/tremolite.	Y	10/12/2011
011	Sht(s) C6, C6A & Sht D2, Detail B	Add shoulders at 2 location along new roadway.	Y	10/17/2011
012	Sheet C6A & D1, Section 1	Change from top soil to 3/4" minus crush at rear of DTSAR Building	Y	10/18/2011
013	Sheet C6 & Sheet D2, Detail D	Detention basin/rock trench, change to bundled rock in lieu of rectangular trench	Y	10/21/2011
014	Sheet C4 & Sheet C6D	Elevation corrections, points 580 & 479	Y	10/21/2011
015	Sheet C4	Modification of excavation depths and finish contours due to staked surveyed south property line adjustment vs plans	Y	10/21/2011
016	Sht(s) C-7, D-1, D-3	The Area 2 remediation will be executed as detailed in the Draft Final OU1-Remedial Action Revision 2, dated February 2012	Y	2/28/2012
017	Sheet C-7	Area 2, the toe of the riprap will be extended to include the area below the pump house	Y	3/7/2012

Change / Modification Log

Sheet 2 of ____

Item No.	Drawing No.	Description	Approved Y / N	Date
018	n/a	Marker barrier was not placed in the parking area of DTSR. The marker barrier will be placed in the area excavated to facilitate the installation of the drainage sump(s)	Y	3/7/2012
019	Sheet C2	Area 2, modify excavation depth to avoid damage to shallow utilities.	Y	4/19-20/2012
020	Sheet C2	Area 2, increase removal and restoration area in the vicinity of the boat ramp	Y	4/19-20/2012
021	Sheet C2	Area 2, east end of Area 2 beyond the Hwy 37 bridge. Due to shallow utilities, perform a shallow scrape, place geo-textile and marker barrier then backfill to match the preexisting grade.	Y	4/19-20/2012
022	Sheet D1 Section 5 (typical)	Area 2, eliminate the placement of a geo-textile barrier under the existing riprap. The existing rip rap will not be moved.	Y	5/7/2012
023	C6	Area 1, modify the area adjacent the southern property line to include a drainage feature, berm/swale.	Y	5/7/2012
024	Sheet D1, Section 4 (typical)	Area 2, exclude common fill on embankments and provide a minimum 6" lift of top soil.	Y	5/7/2012
025	Sheet D1, Detail C	Area 2, Elimination of woody shrubs at the rip rapped revement.	Y	5/7/2012
026	Sheet C5 and D1	Area 2, reduce the limits of the pathway finished with 3/4" crushed rock.	Y	5/7/2012
027	Sheet C5	Area 2, place 1.5" crushed rock at the rear of the river water hydrant pad in lieu of top soil.	Y	5/24/2012
028	Sheet D1, Typical Seed Restoration Section 1	Area 1, modify final top soil lift and complete cap with wood chips.	No, <u>Voided</u>	n/a
029	Sheet D2, Detail D	Detention basin/Rock trench, substitute a 6" lift of 1 1/2" washed rock for 6" of top soil.	Y	5/24/2012
030	Sheet D1, Section 3	Parking area section to have a final lift of 1" minus crushed rock.	Y	5/31 - 6/1/2012
031	Sheet D1, Detail C	due to shallow subsurface utilites along the topof the slope which prohibits further excavtion, the installation of soils and associated erosion control measures is deleted.	Y	6/6 & 7/2012
032	Sheet C3	Relocate the tie in location at the east end of City Services Road and alter road profile and curve camber ("Super").	Y	6/6 & 18/2012
033	Sheet C6	City approved restoration seeding schedule	Y	6/6 & 7/2012
034	Sheet C7	Boat Ramp, eliminate 8 l.f. of articulated concrete mat due to the concrete slab which was poured at the bottom tie in to the existing concrete portion of the ramp to correct the angle of approach.	Y	6/25/2012
035	Sheet C6B	Elimination of two planter areas adjacent the search and rescue building	Y	6/25/2012
036	Sheet C6	Driveway to boat ramps. Eliminate partial circular planter in drive and eliminate abrupt curve in drive.	Y	6/29/2012



Libby Asbestos Project, Operable Unit 1

Change / Modification Log

Sheet 3 of ____

037	Sheet C7, Section 1	modify boat ramp tie in to top approach slab The armorFlex mat and the approach slab will be butted. The 1.5" crushed rock fill in the ArmorFlex mat will have 3/4" structural material substituted due to insufficient space to install 1.5" material	Y	6/29/2012
038	Sheet C6C	At the City of Libby's request and the EPA's direction the elevation of the northern end of the parking lot located to the southwest of the Pavillion will be tapered to meet the existing grade.	Y	6/29/2012
039	Sheet C6A	Modify the excavation depth of City Services road adjacent the search and rescue building	Y	6/29/2012
040	Sheet C6A	Enlargement of 2 rock trench drains at the request of the City of Libby	Y	Verbal: 7/17/12 Written:8/14/2012

HONU'APO

OU1 Design Change and Modification Sheet: Change/Modification #1

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 9/29/11

Date Executed: 9/29/11

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

The City will allow USACE to implement the storm water management plan at USACE direction, so long as Best Management Practices are in place to ensure that no sediment migrates off of the disturbed areas during the remediation and removal activities.

Changes to the Storm Water Management Plan will not require coordination with the City.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

USACE or EPA: Jeff Kallend USACE

Date: 10/4/11

City of Libby: Jim Hammond

Date: 10/4/2011

Acknowledged: CQC: [Signature]

Date: 10/4/11

ACKNOWLEDGED TQA: [Signature]

Date: 10/4/11

OU1 Design Change and Modification Sheet: Change/Modification # 002

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 4SEPT2011

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Between survey reference survey points 370 and 480 there are two trees which interfere with the site storm water detention basin located in this area. The smaller and sickly of the two trees is to be removed and the detention basin moved in a southerly direction along the flow line out of the root zone of the remaining tree.

The revised location of the detention basin will be documented by the project surveyors. And recorded on the red line drawings.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

USACE or EPA: [Signature]

Date: 10/4/11

City of Libby: [Signature]

Date: 10/4/2011

CQC: [Signature]

Date: 10/4/11

TQA: [Signature]

Date: 10/4/11

Acknowledged
ACKNOWLEDGED

OU1 Design Change and Modification Sheet: Change/Modification # 003

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 4SEPT2011

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Elevation point 410 (Sheet C4) was identified by the surveyors as being deeper than it should be. HFS requested a clarification from CDM Engineer, Karin Mainzhausen. Karin stated that the point in question must be "CAD" glitch and suggested that the point be disregarded and the WGM points for the TOB and the rock trench (Detention Basin) invert be used. Ms. Mainzhausen has provided a PDF with the WGM points. The communication from Ms. Mainzhausen and the referenced PDF have been attached to this document.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

USACE or EPA: _____

Date: 10/12/11

City of Libby: Jim Hammond

Date: 10/12/2011

CQC: _____

Date: 10/14/11

TQA: _____

Date: 10-13-11

Acknowledged
ACKNOWLEDGED

John Steeber

From: Mainzhausen, Karin <mainzhausenk@cdm.com>
Sent: Wednesday, October 05, 2011 6:44 AM
To: Rob Burton; Raines, Nicholas; Glaser, Michael B.; Michael@valiint.com
Cc: Hubbard, Jeffrey W NWO (Jeffrey.W.Hubbard@usace.army.mil); survey@montanasky.net; John Steeber
Subject: RE: Elevation Point 410
Attachments: 110109GP Model (1).pdf

I looked at the WGM file and I suggest that the surveyors **disregard point 410** and use the WGM points for the TOB and the Rock trench invert. I attached a pdf with their points. These points are FG and 1.5 ft have to be subtracted to get the subgrade surface. Jim Davis has these points from the WGM xml that I sent them. If you need the coordinates of each point, we can get them to you.

Thanks,
KM

From: Rob Burton [mailto:rburton@priworld.com]
Sent: Tuesday, October 04, 2011 3:31 PM
To: Mainzhausen, Karin; Raines, Nicholas
Cc: Hubbard, Jeffrey W NWO (Jeffrey.W.Hubbard@usace.army.mil); survey@montanasky.net; John Steeber
Subject: Elevation Point 410

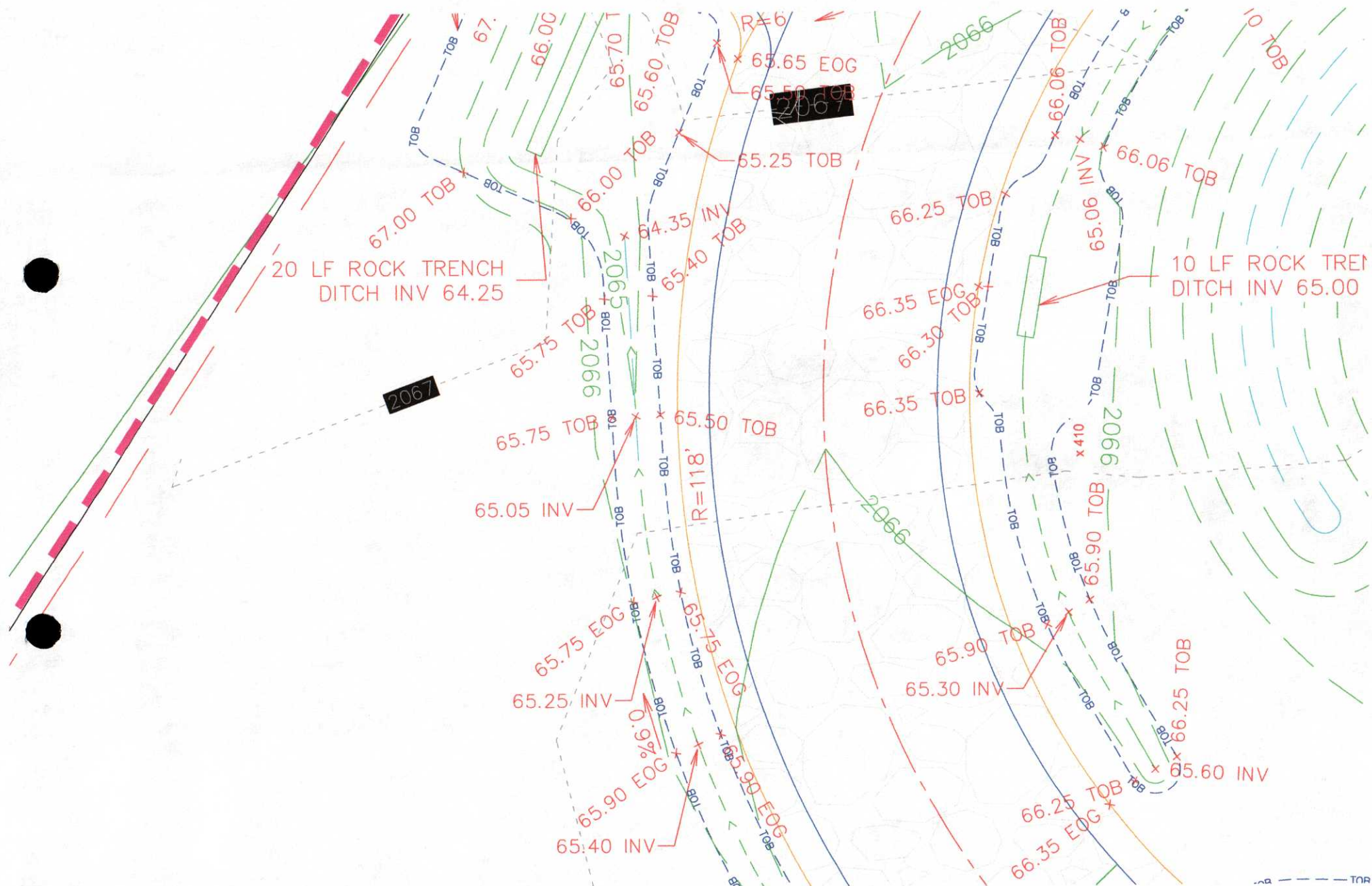
Karin,

The surveyors are requesting a clarification for the elevation associated with point 410. It appears that this point is deeper than what it should be.

Please look at the elevation data to see if there is an apparent issue.

Thanks,

Rob Burton
Project Manager, PRI
Office: (406) 293-3693
Cell: (801) 913-6595
www.priworld.com



OU1 Design Change and Modification Sheet: Change/Modification # 004

*This form is used to document changes and modification to the approved plans.
This form will be kept with the official Quality Control Site Plan.*

Date Initiated: 10/7/11

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

The design for the drainage sumps (Sheet D2, Detail D) adjacent to the DTSAR (Sheet, C6A) will be changed to accommodate the sumps that the city has available. The removal contractor will work with the city to excavate the holes for these sumps so that the material available to the city may be utilized. This will include one (1) sump that has a 6' tall x 4' in diameter barrel and a symmetrical precast cone that fits on top of the barrel, and one (1) sump that has no barrel and an eccentric precast cone. The overall depth of the excavation is to be determined in the field.

PER concurrence w/ WGM Group. H 10/14/11

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

USACE or EPA: _____ Date: 10/12/11

City of Libby: Jim Hamman Date: 10/12/2011

Acknowledged - CQC: _____ Date: 10/14/11

Acknowledged - TQA: _____ Date: 10-13-11

OU1 Design Change and Modification Sheet: Change/Modification # 005

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

The sump that is located approximately 37' ENE off of the NE corner of the DTSAR building (Sheet C6A) will be relocated. The current design places the sump adjacent to the road, and the drainage for the sump into the road itself. Per conversations with WGM, the Libby City representative, the USACE representative, the CDM representative, and the HFS representative, the location of the sump will be moved to the SSW approximately 10', maintaining the same distance from the corner of the DTSAR building. The exact location will be determined in the field and will be cleared with the Libby City representative prior to installation. Adjustments to the surrounding finish grade will be made in the field to ensure positive drainage toward the sump.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

USACE or EPA: _____

Date: 10/12/11

City of Libby: Jim Hamm

Date: 10/12/2011

CQC: [Signature]

Date: 10/14/11

TQA: [Signature]

Date: 10-13-11

Acknowledged

ACKNOWLEDGED

~~HC4~~

OU1 Design Change and Modification Sheet: Change/Modification # 006

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Per conversations with representatives from WGM, Libby City, USACE, CDM and HFS, the thickness of the road sub-grade materials as shown in Detail B on sheet D2 will change from 6" of ¾" minus crushed base course and 8" of 3" minus sub-base material to 10" of ¾" minus crush base course and at least 8" of 3" minus sub-base material.

Changes marked on Quality Control Plans? Yes ☒ No _____

Signatures:

USACE or EPA: _____

Date: 10/12/11

City of Libby: Jim Hammer

Date: 10/12/2011

CQC: _____

Date: 10/14/11

TQA: _____

Date: 10-13-11

Acknowledged

Acknowledged

OU1 Design Change and Modification Sheet: Change/Modification # 007

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Per conversation with representatives of WGM, Libby City, USACE, CDM and HFS, an allowance will be made on the sub-grade material for the parking areas (see Section 3 on Sheet D1). The contractor will ensure that a minimum thickness of 8" of $\frac{3}{4}$ " minus crushed base course will cap the parking areas. The remainder of the sub-grade material below that 8" may be either $\frac{3}{4}$ " minus crushed base course or 3" minus fill sub-base for a total parking area thickness of 18".

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

USACE or EPA: _____ Date: 10/12/11

City of Libby: Jim Hammer Date: 10/12/2011

CQC: _____ Date: 10/14/11

TQA: _____ Date: 10-13-11

Acknowledged
ACKNOWLEDGED

OU1 Design Change and Modification Sheet: Change/Modification # 008

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Per the City's request, the large conifers between points 614 and 480 on sheet C4 will be left in place. The trees were not identified on the design plans. The parking area along the western perimeter of the site will be adjusted to accommodate the trees.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

USACE or EPA: _____ Date: 10/12/11

City of Libby: Jim Hammer Date: 10/12/2011

CQC: _____ Date: 10/14/11

TQA: _____ Date: 10-13-11

Acknowledged
Acknowledged

OU1 Design Change and Modification Sheet: Change/Modification # 009

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: 10/7/11

Property ID: _____

Operable Unit 1 (Area 1)

Design Change / Modification Description:

During the staking of the elevations of the drainage swales, an error was encountered on the design elevations. Surveyor's reference Point 2927 was marked for fill to an elevation of 2602.25. Point 2928 was marked for fill to an elevation of 2602.25. The elevations were adjusted to reflect the surrounding grade and to maintain positive drainage toward the rock trench. Both points were modified to an elevation of 2062.25.

Changes marked on Quality Control Plans? Yes _____ No ☒

Signatures:

USACE or EPA: _____

Date: 10/12/11

City of Libby: _____

Date: 10/12/2011

CQC: _____

Date: 10/14/11

TQA: _____

Date: 10-13-11

Acknowledged
Acknowledged

OU1 Design Change and Modification Sheet: Change/Modification # 010

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/8/11

Date Executed: 10/10/11

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Per discussions with the Libby City representative, it was determined that the cottonwood trees in the SW corner of Area 1 were to be removed. The soil around the trees was impacted with visibly high vermiculite/tremolite. Due to the proximity of the BNSF ROW, the BNSF POC was contacted and informed of the plan to remove the trees.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

USACE or EPA: _____ Date: 10/12/11

City of Libby: Jim Hammond Date: 10/12/2011

CQC: [Signature] Date: 10/14/11

TQA: [Signature] Date: 10-15-11

Acknowledged
Acknowledged

OU1 Design Change and Modification Sheet: Change/Modification # 011

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/13/11 Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

To address safety and traffic management issues it was determined the addition of 4' wide shoulders at 2 locations to the south and east of the Search and Rescue Building, adjacent the new City Services Road alignment were required. The new shoulder sections are to match the adjacent roadway section.

Reference:

- The attached drawing;
- Attached e-mail correspondence, dated October 13, 2011.

OU1-Remdial Action Plans, dated September 2011

- Sheet(s) C6 and C6A, elevation point 583 (grass depression feature) and point 653 (planter area feature);
- Sheet D2, Detail B (Typical City Services Road Section).

This determination was made in coordination by Melissa Matassa-Stone (WGM), Nick Raines (CDM) and Jim Hammons (City of Libby) on October 13, 2011.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Approval Signatures:

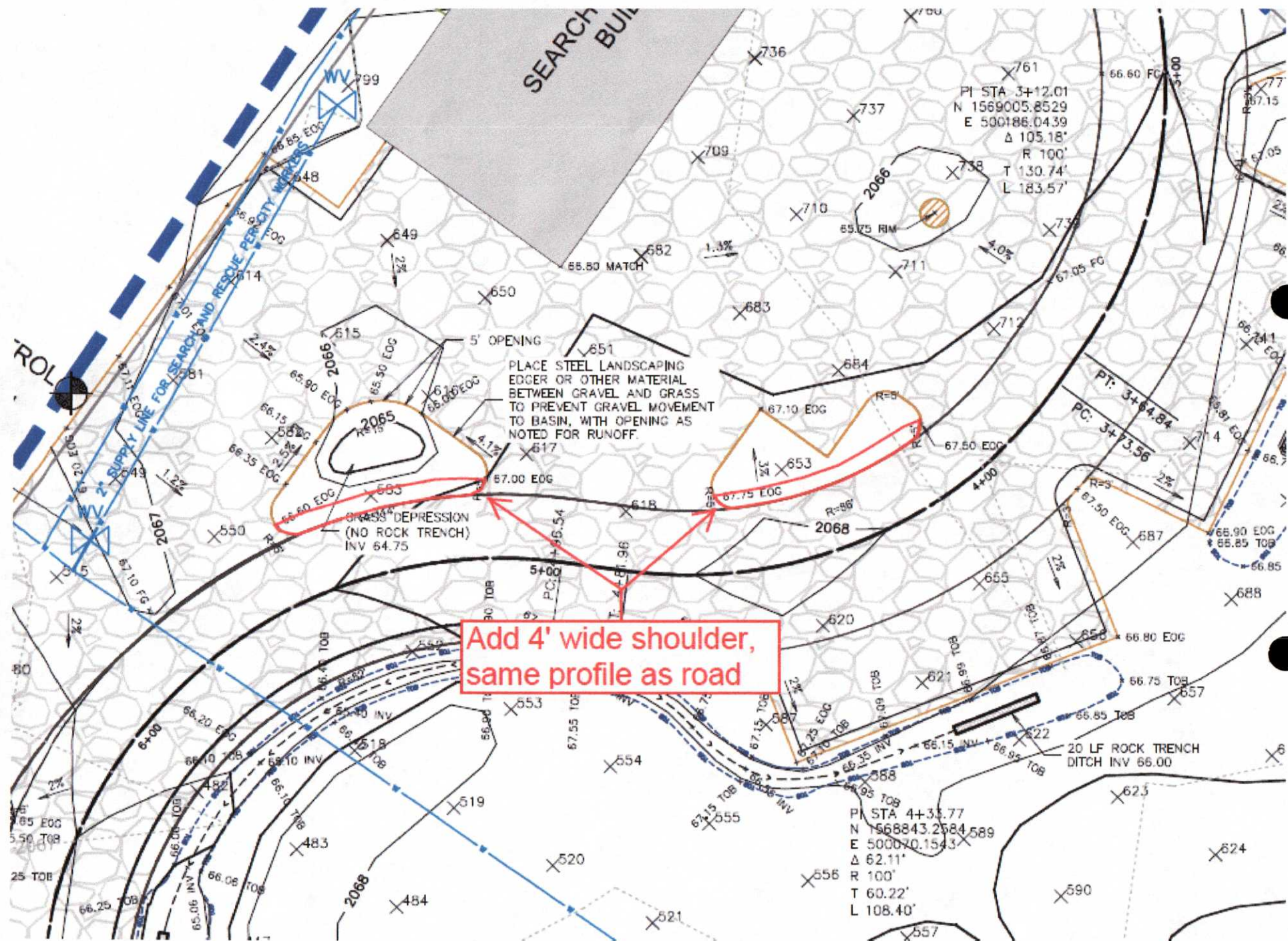
USACE or EPA: [Signature] Date: 10/17/11

City of Libby: Jim Hammons Date: 10/17/2011

Acknowledgement Signatures:

CQC: [Signature] Date: 10/17/2011

TQA: [Signature] Date: 10-17-11



OU1 - Drain/Grass Features Near Search and Rescue

Thu 10/13/2011 6:25 PM

All,

I spoke with Jim Hammons(City of Libby) and Melissa Matassa-Stone (WGM) this morning regarding the 2 drain/grass island features immediately adjacent to City Service Rd. These feature are located south and east of the Search and Rescue Building, and do not include rock trenches. The current design calls for the grass islands to border the new road, with no shoulder between. This may present several safety and traffic management issues. During this meeting, the City and WGM requested that the restoration plan be changed so that a 4-feet wide shoulder is included in these areas. The restoration profile/section in this area will match the adjacent road profile/section. Please see the attached figure for additional details on the location of these features/changes. John Steeber will be developing a modification to document this change.

Let me know if you have any questions.

Thanks,

Nick Raines

CDM | Environmental Engineer | 60 Port Boulevard, Suite 201 | Libby, MT 59923

Phone: 406.293.8595, x230 | Mobile: 406.291.1603 | Fax: 406.293.8901

www.cdm.com

OU1 Design Change and Modification Sheet: Change/Modification # 012

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/15/11 Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

At the request of Search and Rescue representative Ms. Susan Ague, the area at the rear/west of the David Thompson Search and Rescue Building is to be changed from top soil to ¾" minus crush material. See Sheet C6A and Sheet D1, Section 1 (Seed restoration Section) of the Final OU1-Remsdial Action Plans, dated September 2011.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

USACE or EPA: [Signature]

Date: 10/18/11

City of Libby: [Signature]

Date: 10/18/2011

Acknowledged:

CQC: [Signature]

Date: 10/18/11

TQA: [Signature]

Date: 10-18-11

OU1 Design Change and Modification Sheet: Change/Modification # 013

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/19/11 Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Typical Detention Basin/Rock Trench; modify the configuration of the rock trench from an 18" deep x 24" wide rectangular, lineal excavation, to a minimum 18" deep x 24" wide irregular, lineal, bundled configuration of 1.5" to 4" minus uncrushed screened rock, as per plan; the length of the rock trench will also remain as per plan. The proposed change will provide for an overall larger volume of rock. Reference Sheet C6 (locations) and Sheet D2, Detail D.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

USACE or EPA:

City of Libby:

Date: 10/21/11

Date: 10-21-11

Acknowledged:

CQC:

TQA:

Date: 10/21/11

Date: 10-21-11

OU1 Design Change and Modification Sheet: Change/Modification # 014

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/20/11 Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Sheet(s) C4 and C6D, disregard incorrect elevation points 580 (Sht. C4) and 479 (Sht. C6D) Point 580 calls for fill on the southern slope of City Services Road. Point 479 calls for a cut at the base of City Services Road and Mt Hwy 37. Elevation Point 580 is inconsistent with the slope's design contours and appears to be a hold over from a previous, preliminary plan design element (roadside walkway, which is not a part of the current design; Point 479 has been determined to be incorrect.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

USACE or EPA: [Signature]

Date: 10/21/11

City of Libby: [Signature]

Date: 10-21-11

Acknowledged:

CQC: [Signature]

Date: 10/21/11

TQA: [Signature]

Date: 10-21-11

OU1 Design Change and Modification Sheet:

Change/Modification # 015

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/20/11 Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Modify the excavation depths and finish elevations along the southern property line of Area 1 due to discrepancy in the surveyed and staked property line versus the WGN design. The modification requires additional excavation along portion of the property line to assure an 18" cap, upon completion. And, the blending of the site's contours to the adjacent BNSF property along the referenced property line.

Reference:

Sheet C4 of the OU1 – Remedial Action Libby Asbestos Project.

See attached email correspondence and survey maps referenced in the correspondence.

Changes marked on Quality Control Plans? Yes ☒ No ☐

SHEET C6

Signatures:

Approved:

USACE or EPA: [Signature] Date: 10/21/11

City of Libby: [Signature] Date: 10-21-11

Acknowledged:

CQC: [Signature] Date: 10/21/11

TQA: [Signature] Date: 10-21-11

See the attached surveys and the email below for an explanation of the property line discrepancy between OU1 and the BNSF property.

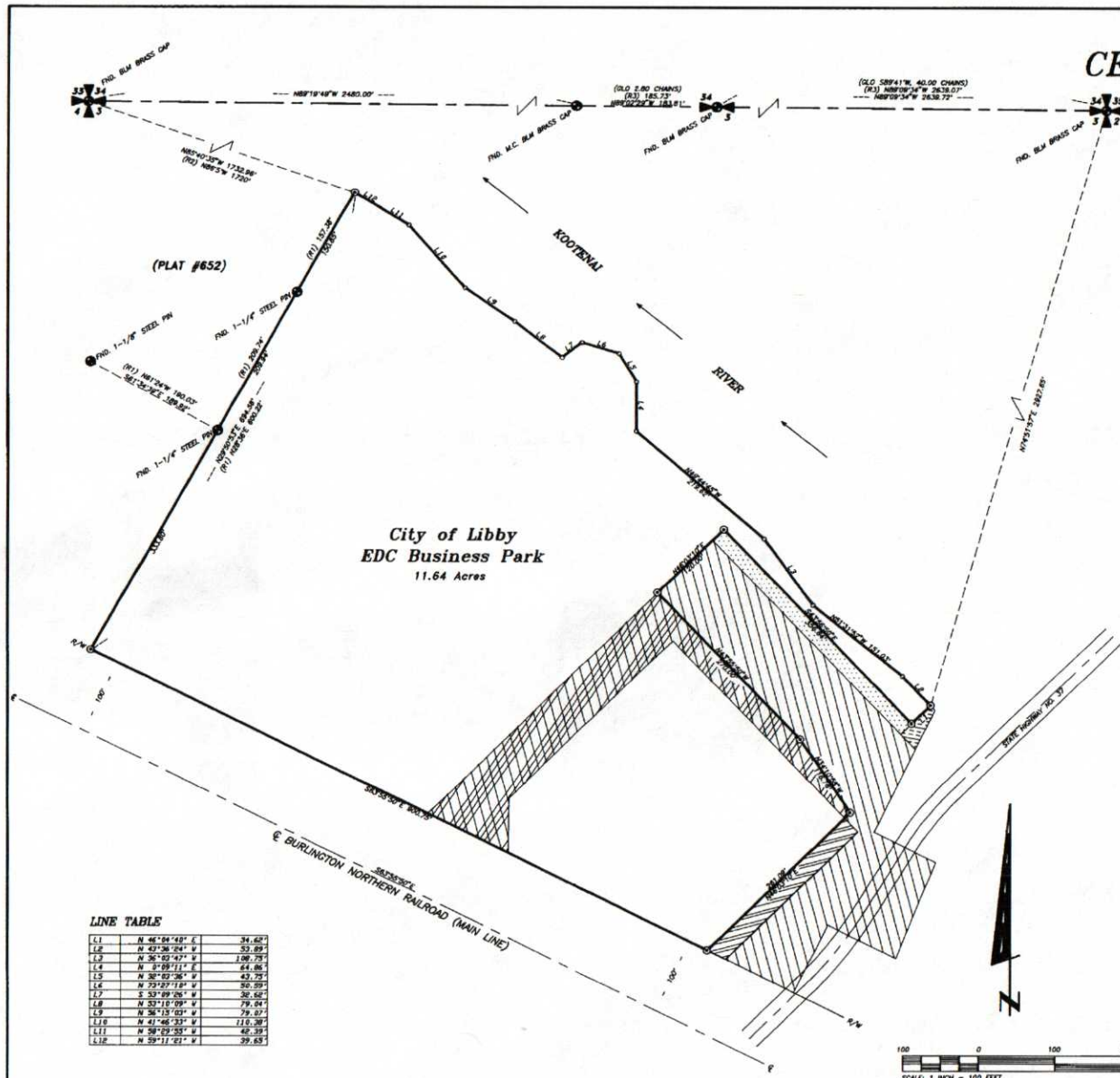
Subject: Riverside park boundary

Attached are two different surveys, the first survey No. 1828 done in 1991 by Davis Surveying Inc. is what we used for the original boundary on the site survey we did in 2010. At the time of the site survey, we only found a couple of monuments located on the northern end of the west boundary line, from those found monuments the rest of the boundaries were retraced by record according to the distances and angles shown on the 1991 survey and associated deeds. This year when we were contracted to physically mark the south (railroad right of way) and west boundary (part of the OU1 contract) we marked the boundaries according to the existing JRS property corners along the rail road right of way as shown on survey no. 2332 done in 1995 (the original Davis corner was destroyed or removed). On the attached surveys I have highlighted the distances on the west boundary where the discrepancy is located, as for why there is a discrepancy I do not know. My experience with railroad right of ways usually involves differences as there are relatively no controlling monuments to establish the railroad right of ways. What is generally used to establish railroad right of way is locating the centerline of the existing main line and offsetting the record distance, in this case 100 ft. It's possible that the JRS used this method of locating a set of "main line" tracks to establish right of way centerline, (there is no other evidence on the JRS survey) but that is only my speculation. As for the older 1991 Davis survey, it appears that the right of way boundary was created using a combination of physically locating the "main line" (which may or may not have been the same "main line" as the JRS survey) and finding controlling monuments from a previous Ninneman Engineering survey located further west of the boundary, as shown on the survey.

Thanks,
Chris Robertson
E.I.D., LLC

CERTIFICATE OF SURVEY

Section 3,
Township 30 North, Range 31 West,
of the Principal Montana Meridian,
Lincoln County, Montana
FOR
City of Libby
EDC Business Park



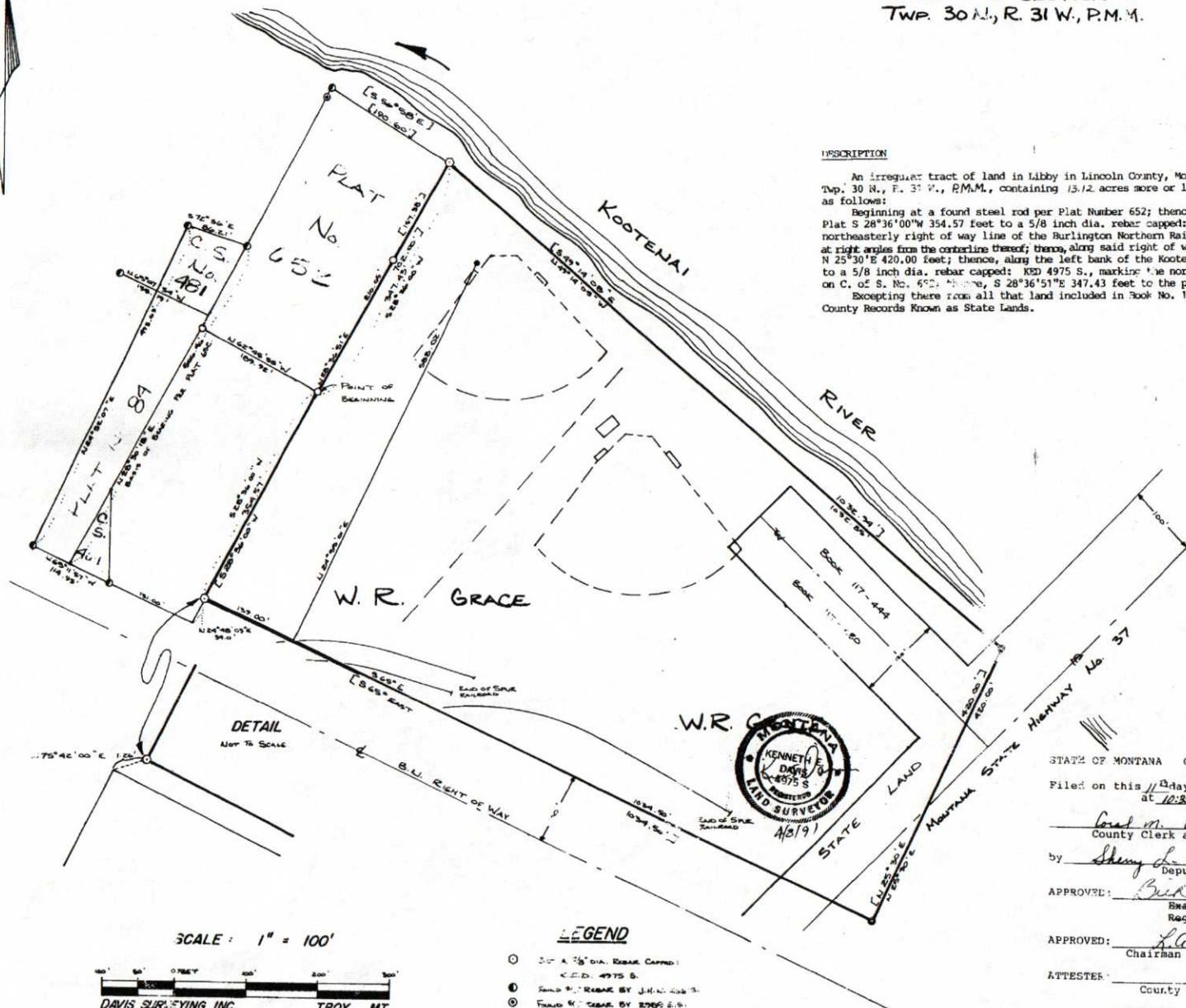
CERTIFICATE OF SURVEY NO. 2332

<p>COUNTY COMMISSIONER</p> <p><i>David A. Carr</i> Chairman, Lincoln County Commissioners 6-15-95 Date</p> <p><i>Bill B. Baskin</i> Checked by 6-15-95 Date</p>	<p>CERTIFICATE OF RECORDER</p> <p>Filed for record this <u>15th</u> day of <u>June</u>, 1995, at <u>5:25</u> o'clock <u>P.M.</u> <i>Carol A. Cunningham</i> Lincoln County Recorder By <i>Francis Sherris</i> Deputy</p>	<p>DATE: 5-8-95</p> <p>JOB NO. M95-01</p> <p>DWN. BY: SEV-J</p> <p>REVISION ONE</p> <p>SHEET 1 OF 1</p>	<p>SECTION 3</p> <p>TOWNSHIP 30N</p> <p>RANGE 31W</p> <p>PRINCIPAL MERIDIAN MT</p> <p>LINCOLN COUNTY</p>	<p>SURVEYOR'S CERTIFICATE</p> <p>I, James R. Staples, do hereby certify that this Certificate of Survey has been prepared in accordance to the Montana Subdivision & Platting Act (Sections 76-3-101 through 76-3-614 M.C.A.) and the regulations adopted pursuant thereto, and that the map shown hereon is a true representation of a survey made by me.</p> <p><i>James R. Staples</i> James R. Staples, 9958LS 5-23-95 Date</p> <p>MONTANA JAMES R. STAPLES 9958 LS JRS SURVEYING</p>	<p>J.R.S. SURVEYING, INC.</p> <p>P.O. BOX 1050 317 MINERAL AVENUE LIBBY, MONTANA 59923 (406) 293-5059</p>
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LINCOLN COUNTY, MONTANA

RETRACEMENT PLAT

IN LOT 3 OF SECTION 3
TWP. 30 N., R. 31 W., P.M.M.



DESCRIPTION

An irregular tract of land in Libby in Lincoln County, Montana, lying within Lot 4 of Section 3 Twp. 30 N., R. 31 W., P.M.M., containing 13.12 acres more or less and more particularly described as follows:

Beginning at a found steel rod per Plat Number 652; thence along easterly boundary of said Plat S 28°36'00"W 354.57 feet to a 5/8 inch dia. rebar capped: KED 4975 S., located on the northeasterly right of way line of the Burlington Northern Railroad at a distance of 100 feet at right angles from the centerline thereof; thence along said right of way line S 65°00'E 1034.5 feet; N 25°30'E 420.00 feet; thence, along the left bank of the Kootenai River N 49°14'05"W 1032.85 feet to a 5/8 inch dia. rebar capped: KED 4975 S., marking the northeast corner of Reedy to Wood Tract on C. of S. No. 452; thence, S 28°36'51"E 347.43 feet to the point of beginning.

Excepting therefrom all that land included in Book No. 117, Page No. 444 and 480 of Lincoln County Records known as State Lands.

STATE OF MONTANA COUNTY OF LINCOLN

Filed on this 11 day of April, 1991
at 10:30 o'clock P. M.

Count M. Cunningham
County Clerk and Recorder

by Sherry L. Hawke
Deputy

APPROVED: Buck Handoff
Examining Land Surveyor
Registration No.

APPROVED: L.C. Noble
Chairman Board of Commissioners

ATTESTER: County Clerk and Recorder

Dated this day of April, 1991

PLAT NO. 1829



**OU1 Design Change and Modification Sheet:
Change/Modification # 16**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 2/28/12

Date Executed: 2/28/12

Property ID: _____ Operable Unit 1 (Area 1) _____

Design Change / Modification Description:

The Area 2 remediation will be executed as detailed in the Draft Final OU1-Remedial Action Revision 2 dated February 2012. Changes were made to the original design as coordinated between USEPA and the City of Libby.

RipRAP Change ^{MC}

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: [Signature]

Date: 2/28/12

City of Libby: [Signature]

Date: 2/28/2012

CQC: [Signature]

Date: 2/28/12

TQA: [Signature]

Date: 2/28/12



**OU1 Design Change and Modification Sheet:
Change/Modification # 17**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 3/7/12

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

The toe of the rip rap on the Kootenai River embankment will be extended to include the area below the pump house. The existing rip rap below the pump house does not currently extend into the river below the ordinary high water mark. There is some evidence of undercutting. The rip rap toe will be installed to match the toe on either side of the pump house, making the toe uniform along the bank and mitigating the undercutting.

The rip rap adjacent to the boat ramp is grouted, and will not be disturbed.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: [Signature] Date: 3-7-12

City of Libby: [Signature] Date: 3/7/2012

CQC: [Signature] Date: 3/7/2012

TQA: [Signature] Date: 3/7/2012



**OU1 Design Change and Modification Sheet:
Change/Modification # 18**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 3/7/12

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

The purpose of this modification is to address the lack of a marker barrier in the area currently used for parking by the David Thompson Search and Rescue. The remediation of this area was performed using the most current draft of the design available that did not require placement of the marker barrier. Subsequent iterations of the design do call for placement of the marker barrier.

Limited placement of the marker barrier will occur when the drainage sump is excavated. No additional marker barrier will be placed in this area. The area with no marker barrier will be indicated on the as-built drawings.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: [Signature]

Date: 3-7-2012

City of Libby: [Signature]

Date: 3/7/2012

CQC: [Signature]

Date: 3/7/2012

TQA: [Signature]

Date: 3/7/2012



OU1 Design Change and Modification Sheet:
Change/Modification # 019

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 4/19/12 Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 2)

Design Change / Modification Description:

Modify the excavation depth to avoid damage to shallow utilities in Area 2. A surface scrape of the areas of concern will be performed creating a uniform surface. Backfill materials will be placed per plan to accomplish the specified 18" cap over the referenced area of concern.

Final excavation depths and changed depth locations will be identified on as-built drawings. ME

Reference:

Plans Titled:

Draft Final OU1 - Remedial Action, Revision 2, Libby Asbestos Project, Libby, MT

Dated: February 2012

Sheet C2, Titled OU1-Remedial Action, Proposed Areas 2 & 3, Excavation Plan

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

Approved:

USACE or EPA: *[Signature]*

Date: 4-19-12

City of Libby: *Jim Hammann*

Date: 4/20/2012

Acknowledged:

CQC: *[Signature]*

Date: 4/20/2012

TQA: *[Signature]*

Date: 4/20/12



OU1 Design Change and Modification Sheet:
Change/Modification # 020

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 4/19/12 Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 2)

Design Change / Modification Description:

Expand the removal and restoration area approximately 50 lineal feet from the current western limit of the excavation to the eastern edge of the boat ramp. The width of the removal area will remain approximately the same. LA had been identified in the subject area by a previous inspection.

Reference:

Plans Titled:

Draft Final OU1 - Remedial Action, Revision 2, Libby Asbestos Project, Libby, MT

Dated: February 2012

Sheet C2, Titled OU1-Remedial Action, Proposed Areas 2 & 3, Excavation Plan

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

Approved:

USACE or EPA:

Date: 4-19-12

City of Libby:

Date: 4/20/2012

Acknowledged:

CQC:

Date: 4/20/12

TQA:

Date: 4/20/12



OU1 Design Change and Modification Sheet:
Change/Modification # 021

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 4/19/12 Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 2)

Design Change / Modification Description:

Due to multiple, shallow utilities clustered together at the utility pedestals located at the eastern end of the Area 2 excavation within the MDT right-of-way. The modification will be to: perform a shallow removal of the impacted soils so as to not damage the utilities; place a filter fabric (geo textile) and orange marker barrier; and then backfill to the pre-existing grade with road base material. The location will be surveyed and the information documented in the as-built documents.

Reference:

Plans Titled:

Draft Final OU1 - Remedial Action, Revision 2, Libby Asbestos Project, Libby, MT

Dated: February 2012

Sheet C2, Titled OU1-Remedial Action, Proposed Areas 2 & 3, Excavation Plan

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

Approved:

USACE or EPA: [Signature] Date: 4-19-12

City of Libby: SEE NOTE BELOW * Date: _____

MDT: NOTIFIED, NO RESPONSE. WORK TO BE PERFORMED UNDER EXISTING PERMIT Date: _____

Acknowledged:

CQC: [Signature] Date: 4/20/12

TQA: [Signature] Date: 4/20/12

* The City does not own this Property

Jim Hammer

4/20/2012



**OU1 Design Change and Modification Sheet:
Change/Modification # 22**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 5/7/12

Date Executed: 5/7/12

Property ID: _____ Operable Unit 1 (Area 2)

Design Change / Modification Description:

Sheet D1 Section 5 (typical), requires a geotextile barrier be placed under 12" of rip rap for the slope above the path and under the bridge. The design does not require removal in this area. Rip rap is currently placed (pre-existing) on the lower portions of the slope of this area.

The pre-existing rip rap will not be removed. The geotextile barrier will be placed on the areas of the slope where there is no rip rap. Geotextile will not be placed under the existing rip rap. The area where no barrier is placed will be surveyed, and the area will be marked on the final as-built drawing as an area without a barrier.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

Approved:

USACE or EPA: [Signature] Date: 5-7-12

City of Libby: Jim Hammon Date: 5/7/12

Acknowledged:

CQC: [Signature] Date: 5/7/12

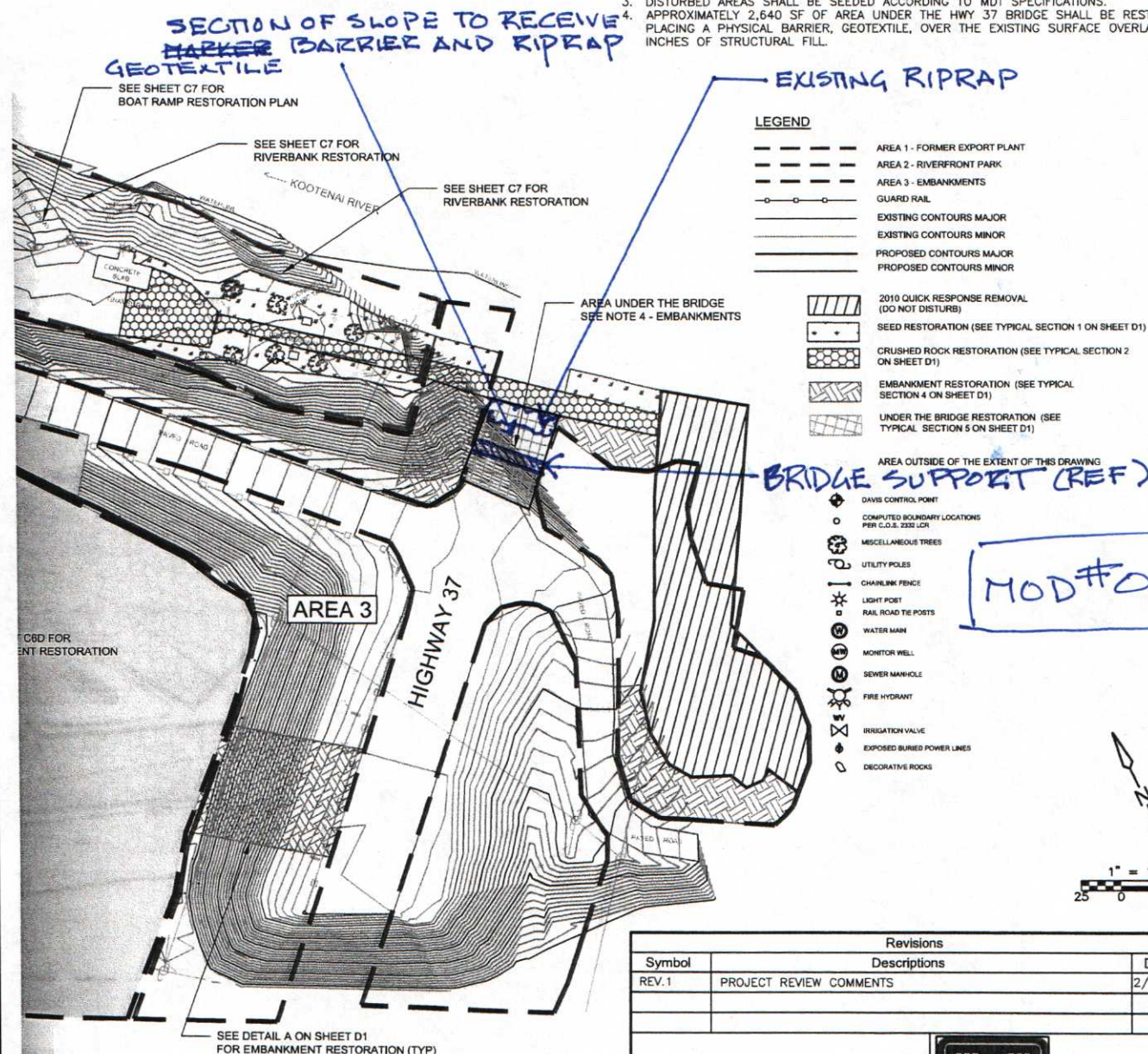
TQA: [Signature] Date: 5/7/12

* MINUS STRUCTURAL FILL - 200 CY

SE VOLUMES DO NOT INCLUDE THE BOAT RAMP RESTORATION.


1. ALL DISTURBED AREAS SHALL BE SEEDED AND REVEGETATED.


1. ALL AREAS SHALL BE GRADED TO BLEND INTO THE SURROUNDING GRADE. EROSION CONTROL BLANKETS (APPROXIMATELY 21,865 SF) SHALL BE PLACED ON THE DISTURBED AREAS AS PER MANUFACTURER'S SPECIFICATION AND SEEDED AS SHOWN ON DETAIL A ON SHEET 01.
2. COMPACTION SHALL BE ATTAINED AS PER CURRENT MDT SPECIFICATIONS USING EITHER A STAND-ALONE COMPACTOR OR A COMPACTION ATTACHMENT ON AN EXCAVATOR.
3. DISTURBED AREAS SHALL BE SEEDDED ACCORDING TO MDT SPECIFICATIONS.
4. APPROXIMATELY 2,640 SF OF AREA UNDER THE HWY 37 BRIDGE SHALL BE RESTORED BY PLACING A PHYSICAL BARRIER, GEOTEXTILE, OVER THE EXISTING SURFACE OVERLAID BY 12 INCHES OF STRUCTURAL FILL.



MOD#022

Revisions			
Symbol	Descriptions	Date	Approved
REV.1	PROJECT REVIEW COMMENTS	2/1/12	GM

CDM Federal Programs Corporation		US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM
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Designed by: K. MAINZHAUSEN	 US EPA Region VIII Denver, Colorado	LIBBY ASBESTOS PROJECT LIBBY, MONTANA	
Drawn by: K. HUFFSMITH		OU1-REMEDIAL ACTION PROPOSED AREAS 2 & 3 RESTORATION PLAN	
Checked by: G. MCKENZIE		Scale: 1" = 100'	Sheet number: C5
Submitted by: G. MCKENZIE	Date: FEBRUARY 2012	Dwg. No.: 7	



**OU1 Design Change and Modification Sheet:
Change/Modification # 23**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 5/17/12

Date Executed: 5/7/12

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

The final grade on the south perimeter of Area 1 where the City property adjoins the BNSF property will have a drainage feature installed along the southern boundary of Area 1 to direct run-off from the BNSF property to the pre-existing point of drainage discharge at the southwest corner of Area 1. The final grade elevations for the drainage feature will be recorded on the final as-build drawings.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

Approved:

USACE or EPA:

Date: 5-7-12

City of Libby:

Date: 5/7/12

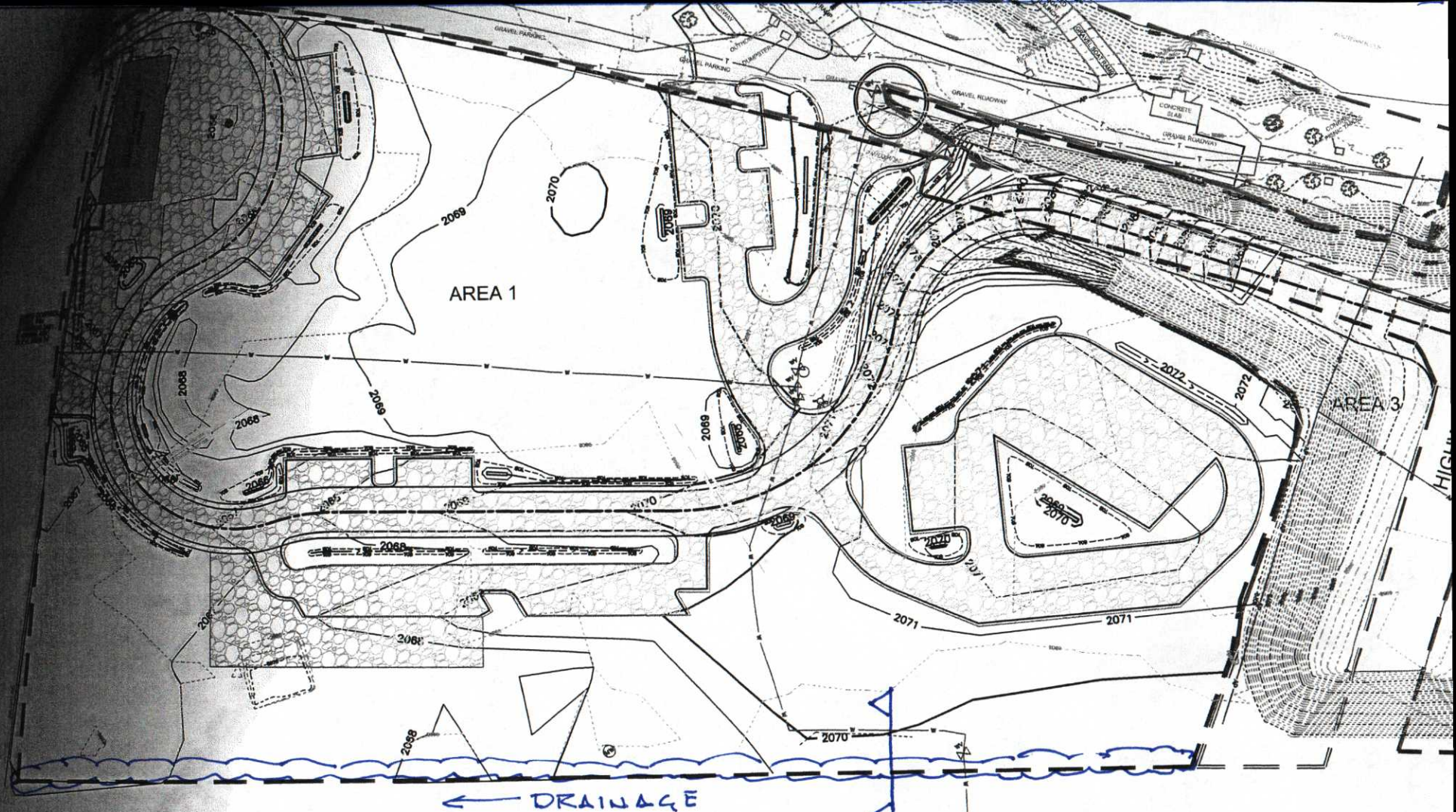
Acknowledged:

CQC:

Date: 5/7/12

TQA:

Date: 5/7/12



COMMON FILL

1. COMMON FILL SHALL CONSIST OF MINERAL SOIL SUBSTANTIALLY FREE OF ORGANIC MATERIAL, LOAM, WOOD, TRASH AND OTHER OBJECTIONABLE MATERIALS WHICH MAY BE COMPRESSIBLE OR WHICH CANNOT BE PROPERLY COMPACTED.
2. COMMON FILL SHALL NOT CONTAIN ANY STONES LARGER THAN 2 INCHES IN THE LARGEST DIMENSION AND SHALL MEET THE GRADATION SHOWN ON TABLE 1 BELOW.
3. COMMON FILL SHALL HAVE A LIQUID LIMIT LESS THAN 35 AND A PLASTICITY INDEX LESS THAN 10.

TABLE 1. COMMON FILL GRADATION

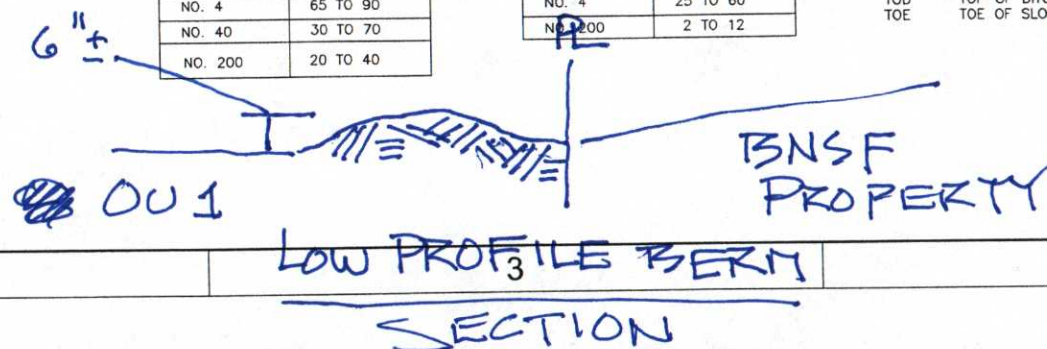
SIEVE SIZE	PERCENT FINES PER WEIGHT
2.0 INCHES	100
NO. 4	65 TO 90
NO. 40	30 TO 70
NO. 200	20 TO 40

TABLE 2. 3" MINUS GRADATION

SIEVE SIZE	PERCENT FINES PER WEIGHT
3.0 INCHES	100
NO. 4	25 TO 60
NO. 200	2 TO 12

GRADING LEGEND:

X 67.05 FINISH ELEVATION (PLUS)
 FG FINISH GRADE
 EOG EDGE OF GRAVEL
 INV INVERT
 TOB TOP OF BANK
 TOD TOP OF DITCH
 TOE TOE OF SLOPE



5

4

MOD #023

LOW PROFILE BERM
SECTION

2



**OU1 Design Change and Modification Sheet:
Change/Modification # 24**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 5/7/12

Date Executed: 5/7/12

Property ID: _____ Operable Unit 1 (Area 2)

Design Change / Modification Description:

Sheet D1 Section 4 (typical), requires that 8" of common fill and 4" of topsoil be placed as replacement fill on the embankments adjoining Area 2. Excavation in area is designed for 6".

Replacement of fill material on these embankments will be with a minimum 6" of topsoil, the common fill is excluded on the referenced embankments.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

Approved:

USACE or EPA:

Date: 5-7-12

City of Libby:

Date: 5/7/12

Acknowledged:

CQC:

Date: 5/7/12

TQA:

Date: 5/7/12

ATED RESTORATION VOLUMES:

ION FILL - 1,260 CY

SOIL - 395 CY

MINUS STRUCTURAL FILL - 200 CY

E VOLUMES DO NOT INCLUDE THE BOAT RAMP RESTORATION.

NOTE FOR AREA 2 - RIVERFRONT PARK

1. ALL DISTURBED AREAS SHALL BE SEEDED AND REVEGETATED.

NOTES FOR AREA 3 - EMBANKMENTS

1. ALL AREAS SHALL BE GRADED TO BLEND INTO THE SURROUNDING GRADE. EROSION CONTROL BLANKETS (APPROXIMATELY 21,865 SF) SHALL BE PLACED ON THE DISTURBED AREAS AS PER MANUFACTURER'S SPECIFICATION AND SEEDED AS SHOWN ON DETAIL A ON SHEET D1.
2. COMPACTION SHALL BE ATTAINED AS PER CURRENT MDT SPECIFICATIONS USING EITHER A STAND-ALONE COMPACTOR OR A COMPACTION ATTACHMENT ON AN EXCAVATOR.
3. DISTURBED AREAS SHALL BE SEEDED ACCORDING TO MDT SPECIFICATIONS.
4. APPROXIMATELY 2,640 SF OF AREA UNDER THE HWY 37 BRIDGE SHALL BE RESTORED BY PLACING A PHYSICAL BARRIER, GEOTEXTILE, OVER THE EXISTING SURFACE OVERLAIN BY 12 INCHES OF STRUCTURAL FILL.

EMBANKMENT
AREAS TO BE BACKFILLED
W/ 6" TOP SOIL

LEGEND

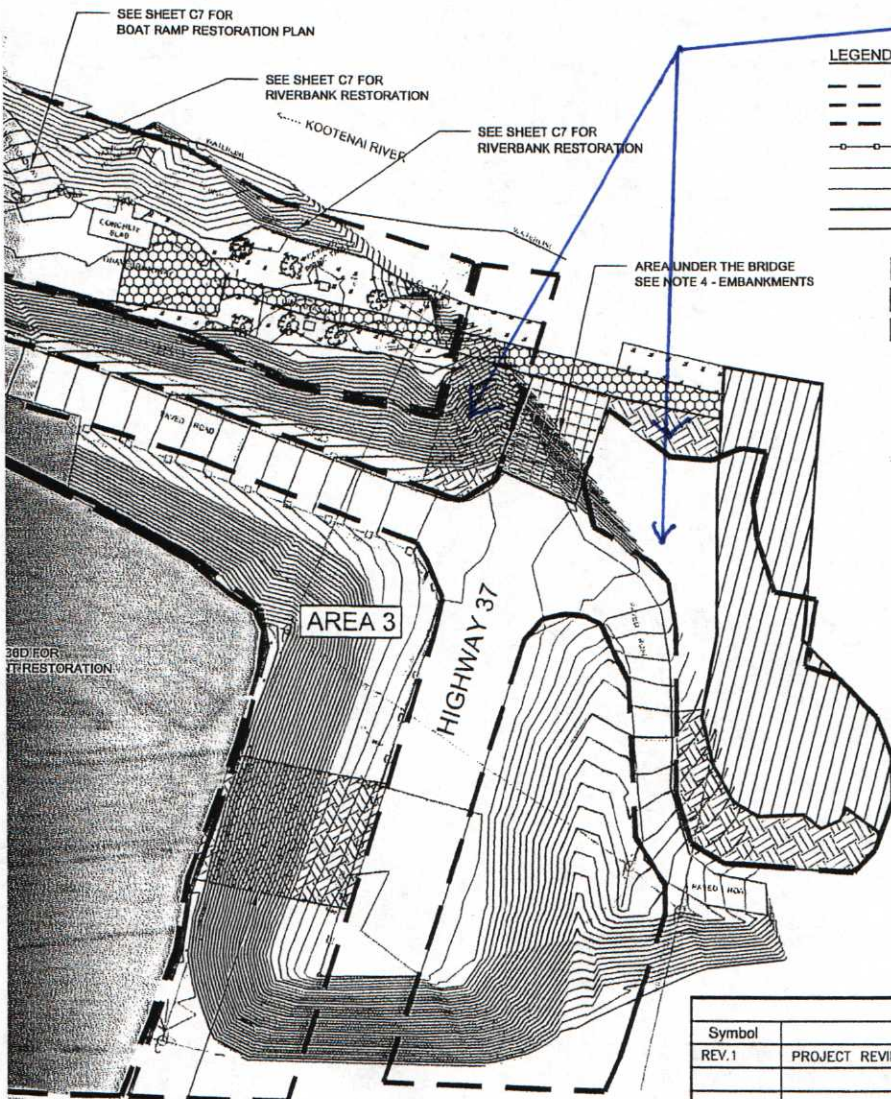
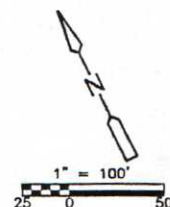
- AREA 1 - FORMER EXPORT PLANT
- AREA 2 - RIVERFRONT PARK
- AREA 3 - EMBANKMENTS
- GUARD RAIL
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- PROPOSED CONTOURS MAJOR
- PROPOSED CONTOURS MINOR

- 2010 QUICK RESPONSE REMOVAL (DO NOT DISTURB)
- SEED RESTORATION (SEE TYPICAL SECTION 1 ON SHEET D1)
- CRUSHED ROCK RESTORATION (SEE TYPICAL SECTION 2 ON SHEET D1)
- EMBANKMENT RESTORATION (SEE TYPICAL SECTION 4 ON SHEET D1)
- UNDER THE BRIDGE RESTORATION (SEE TYPICAL SECTION 6 ON SHEET D1)

AREA OUTSIDE OF THE EXTENT OF THIS DRAWING

- DAVIS CONTROL POINT
- COMPUTED BOUNDARY LOCATIONS PER C.O.S. 2012 LCA
- MISCELLANEOUS TREES
- UTILITY POLES
- CHAMBER FENCE
- LIGHT POST
- RAILROAD TIE POSTS
- WATER MAIN
- MONITOR WELL
- SEWER MANHOLE
- FIRE HYDRANT
- IRRIGATION VALVE
- EXPOSED BURIED POWER LINES
- DECORATIVE ROCKS

MOD #24



SEE DETAIL A ON SHEET D1
FOR EMBANKMENT RESTORATION (TYP)

SEED MIX FOR DISTURBED AREAS WITHIN MDT RIGHT OF WAYS

RIPARIAN WHEATGRASS	2 LBS/ACRE
HARD FESCUE	5 LBS/ACRE
TALL FESCUE	3 LBS/ACRE
CANADA BLUEGRASS	5 LBS/ACRE
REGAR MEADOW BROME	5 LBS/ACRE


TOTAL 20 LBS/ACRE

ESTIMATED DISTURBED AREA = 0.5 ACRES

NOTES:

1. EMBANKMENT AREAS SHALL BE SEEDED ACCORDING TO MDT SPECIFICATIONS.
2. SEED MIX IS APPLICABLE FOR ALL AREAS TO BE RESTORED AS HYDROSEED, EMBANKMENT RESTORATION AND PLANTED RIPRAP.
3. CONTRACTOR ALSO RESPONSIBLE FOR RESTORING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.

Revisions			
Symbol	Descriptions	Date	Approved
REV.1	PROJECT REVIEW COMMENTS	2/1/12	GM

CDM Federal Programs Corporation		 US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM	
Designed by:	K. MAINZHAUSEN	LIBBY ASBESTOS PROJECT LIBBY, MONTANA OU1-REMEDIATION ACTION PROPOSED AREAS 2 & 3 RESTORATION PLAN	
Drawn by:	K. HUFFSMITH		
Checked by:	G. MCKENZIE		
Submitted by:	G. MCKENZIE	Scale: 1" = 100'	Sheet number: C5
Date:	FEBRUARY 2012	Plot Scale:	Design File:
Dwg. No.:	7	File: K:\Libby OU\DWG\September 2011 dwg\CS PROPOSED INITIAL GRADING AREAS 2 & 3.dwg	



**OU1 Design Change and Modification Sheet:
Change/Modification # 25**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 5/7/12

Date Executed: 5/7/12

Property ID: _____ Operable Unit 1 (Area 2)

Design Change / Modification Description:

Sheet D1 Detail C shows the design riprap revetment. The revetment will be altered from the original design.

The EPA and the City have reached agreement on compensation for the vegetation removed during the course of the remediation. There will be no installation of the woody shrubs (including willow stakes) by the EPA contractors.

The existing riprap will be covered with minimum 6" of topsoil to at least the 2065 elevation, seeded, and covered with an erosion control blanket.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

Approved:

USACE or EPA: [Signature] Date: 5-7-12

City of Libby: Jim Hamm Date: 5/7/12

Acknowledged:

CQC: [Signature] Date: 5/7/12

TQA: [Signature] Date: 5/2/12



**OU1 Design Change and Modification Sheet:
Change/Modification # 26**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 5/7/12

Date Executed: 5/7/12

Property ID: _____ Operable Unit 1 (Area 2)

Design Change / Modification Description:

At the request of the City of Libby. Reference Sheet C5, the limits of the pathway on which $\frac{3}{4}$ " minus crush base material is to be placed as the finish lift per the "crushed rock restoration section 2", on Sheet D1, is now to be changed to a 6" topsoil final lift commencing approximately at the western end of the power poles extending west to the eastern edge of the access ramp to the pump house.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

Approved:

USACE or EPA: [Signature] Date: 5-7-12

City of Libby: Jim Hammond Date: 5/7/12

Acknowledged:

CQC: [Signature] Date: 5/7/12

TQA: [Signature] Date: 5/7/12

WATED RESTORATION VOLUMES:

MON FILL - 1,260 CY

SOIL - 395 CY

MINUS STRUCTURAL FILL - 200 CY

THE VOLUMES DO NOT INCLUDE THE BOAT RAMP RESTORATION.

NOTE FOR AREA 2 - RIVERFRONT PARK

1. ALL DISTURBED AREAS SHALL BE SEEDED AND REVEGETATED.

NOTES FOR AREA 3 - EMBANKMENTS

1. ALL AREAS SHALL BE GRADED TO BLEND INTO THE SURROUNDING GRADE. EROSION CONTROL BLANKETS (APPROXIMATELY 21,865 SF) SHALL BE PLACED ON THE DISTURBED AREAS AS PER MANUFACTURER'S SPECIFICATION AND SEEDED AS SHOWN ON DETAIL A ON SHEET D1.
2. COMPACTION SHALL BE ATTAINED AS PER CURRENT MDT SPECIFICATIONS USING EITHER A STAND-ALONE COMPACTOR OR A COMPACTION ATTACHMENT ON AN EXCAVATOR.
3. DISTURBED AREAS SHALL BE SEEDED ACCORDING TO MDT SPECIFICATIONS.
4. APPROXIMATELY 2,640 SF OF AREA UNDER THE HWY 37 BRIDGE SHALL BE RESTORED BY PLACING A PHYSICAL BARRIER, GEOTEXTILE, OVER THE EXISTING SURFACE OVERLAIN BY 12 INCHES OF STRUCTURAL FILL.

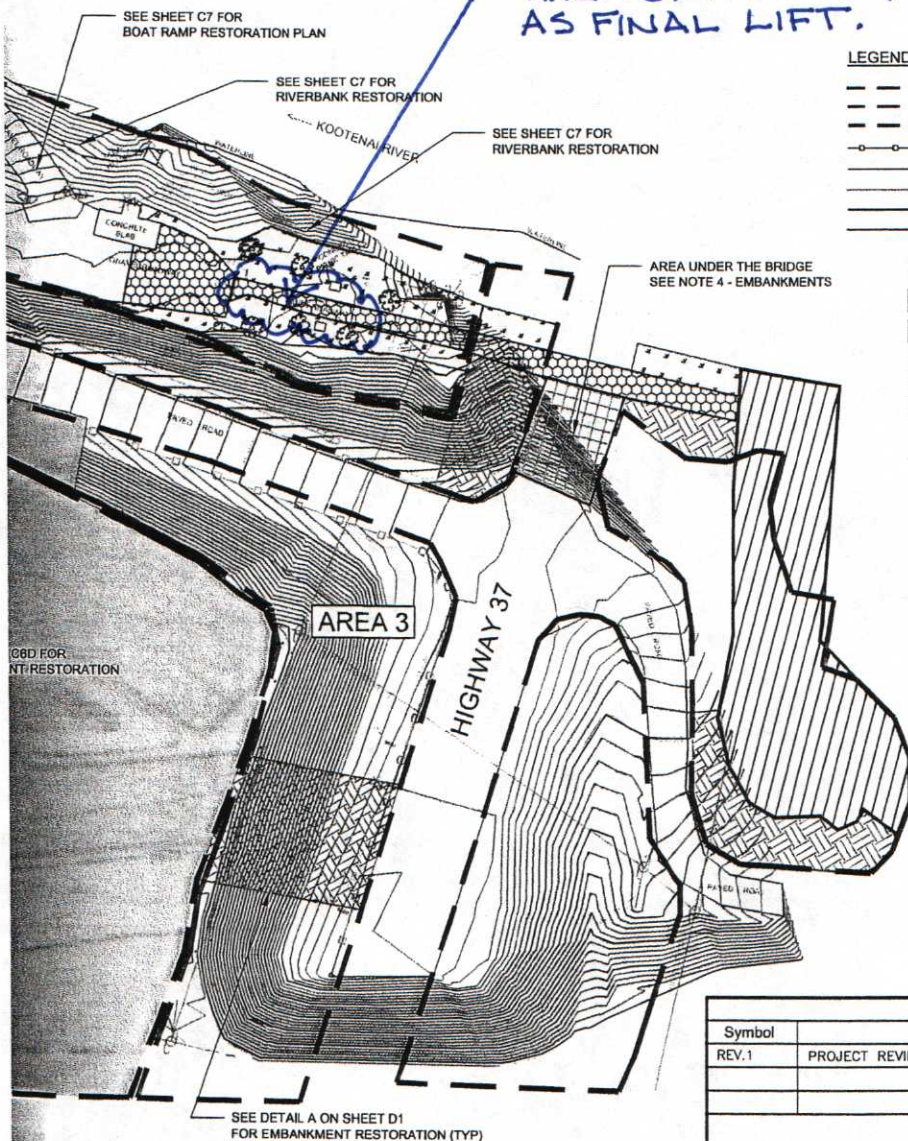
AREA OF PATHWAY TO HAVE TOPSOIL (6") AS FINAL LIFT.

D

C

B

A



LEGEND

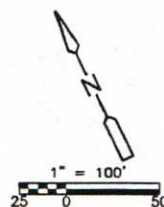
- AREA 1 - FORMER EXPORT PLANT
- AREA 2 - RIVERFRONT PARK
- AREA 3 - EMBANKMENTS
- GUARD RAIL
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- PROPOSED CONTOURS MAJOR
- PROPOSED CONTOURS MINOR

- 2010 QUICK RESPONSE REMOVAL (DO NOT DISTURB)
- SEED RESTORATION (SEE TYPICAL SECTION 1 ON SHEET D1)
- CRUSHED ROCK RESTORATION (SEE TYPICAL SECTION 2 ON SHEET D1)
- EMBANKMENT RESTORATION (SEE TYPICAL SECTION 4 ON SHEET D1)
- UNDER THE BRIDGE RESTORATION (SEE TYPICAL SECTION 5 ON SHEET D1)

AREA OUTSIDE OF THE EXTENT OF THIS DRAWING

- DAVIS CONTROL POINT
- COMPUTED BOUNDARY LOCATIONS PER C.O.S. 2332 LCR
- MISCELLANEOUS TREES
- UTILITY POLES
- CHAINLINK FENCE
- LIGHT POST
- RAILROAD TIE POSTS
- WATER MASH
- MONITOR WELL
- SEWER MANHOLE
- FIRE HYDRANT
- IRRIGATION VALVE
- EXPOSED BURIED POWER LINES
- DECORATIVE ROCKS

MOD #0260



Revisions			
Symbol	Descriptions	Date	Approved
REV.1	PROJECT REVIEW COMMENTS	2/1/12	GM

CDM Federal Programs Corporation		US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM	
Designed by: K. MAINZHAUSEN	US EPA Region VIII Denver, Colorado	LIBBY ASBESTOS PROJECT LIBBY, MONTANA	
Drawn by: K. HUFFSMITH		OU1-REMEDIATION ACTION PROPOSED AREAS 2 & 3 RESTORATION PLAN	
Checked by: G. MCKENZIE		Scale: 1" = 100' Date: FEBRUARY 2012 Dwg. No.: 7	
Submitted by: G. MCKENZIE	Sheet number: C5	Plot Scale: Design File: File: K:\Libby OU\OU1\September 2011 No.: 001\05 PROPOSED INITIAL GRADING AREAS 2 & 3.dwg	

SEED MIX FOR DISTURBED AREAS WITHIN MDT RIGHT OF WAYS

RIPIAN WHEATGRASS	2 LBS/ACRE
HARD FESCUE	5 LBS/ACRE
TALL FESCUE	3 LBS/ACRE
CANADA BLUEGRASS	5 LBS/ACRE
REGAR MEADOW BROME	5 LBS/ACRE

TOTAL 20 LBS/ACRE

ESTIMATED DISTURBED AREA = 0.5 ACRES

NOTES:

1. EMBANKMENT AREAS SHALL BE SEEDED ACCORDING TO MDT SPECIFICATIONS.
2. SEED MIX IS APPLICABLE FOR ALL AREAS TO BE RESTORED AS HYDROSEED, EMBANKMENT RESTORATION AND PLANTED RIPRAP.
3. CONTRACTOR ALSO RESPONSIBLE FOR RESTORING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.



**OU1 Design Change and Modification Sheet:
Change/Modification # 27**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 5/21/12

Date Executed: 5/24/12

Property ID: _____ Operable Unit 1 (Area 2)

Design Change / Modification Description:

Area 2, Sheet C5. River water hydrant pad. Place 1.5" crushed rock in lieu of top soil at the rear/northerly side of the concrete pad to facilitate run-off drainage and eliminate the development of mud resulting from water run-off from the hydrant's concrete pad.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

Approved:

USACE or EPA:

Date: 5-24-12

City of Libby:

Date: 5/24/2012

Acknowledged:

CQC:

Date: 5/24/12

TQA:

Date: 5/24/12

ESTIMATED RESTORATION VOLUMES:

COMMON FILL - 1,260 CY

TOP SOIL - 395 CY

3/4" MINUS STRUCTURAL FILL - 200 CY

NOTE:
THESE VOLUMES DO NOT INCLUDE THE BOAT RAMP RESTORATION.

NOTE FOR AREA 2 - RIVERFRONT PARK

1. ALL DISTURBED AREAS SHALL BE SEEDED AND REVEGETATED.

NOTES FOR AREA 3 - EMBANKMENTS

1. ALL AREAS SHALL BE GRADED TO BLEND INTO THE SURROUNDING GRADE. EROSION CONTROL BLANKETS (APPROXIMATELY 21,865 SF) SHALL BE PLACED ON THE DISTURBED AREAS AS PER MANUFACTURER'S SPECIFICATION AND SEEDED AS SHOWN ON DETAIL A ON SHEET D1.
2. COMPACTION SHALL BE ATTAINED AS PER CURRENT MDT SPECIFICATIONS USING EITHER A STAND-ALONE COMPACTOR OR A COMPACTION ATTACHMENT ON AN EXCAVATOR.
3. DISTURBED AREAS SHALL BE SEEDED ACCORDING TO MDT SPECIFICATIONS.
4. APPROXIMATELY 2,640 SF OF AREA UNDER THE HWY 37 BRIDGE SHALL BE RESTORED BY PLACING A PHYSICAL BARRIER, GEOTEXTILE, OVER THE EXISTING SURFACE OVERLAIN BY 12 INCHES OF STRUCTURAL FILL.

PLACE 1.5" CRUSH ROCK
IN LIEU OF TOP SOIL

SEE SHEET C7 FOR
BOAT RAMP RESTORATION PLAN

SEE SHEET C7 FOR
RIVERBANK RESTORATION

KOOTENAI RIVER

SEE SHEET C7 FOR
RIVERBANK RESTORATION

AREA UNDER THE BRIDGE
SEE NOTE 4 - EMBANKMENTS

SEE SHEET C6D FOR
EMBANKMENT RESTORATION

AREA 3

HIGHWAY 37

SEE DETAIL A ON SHEET D1
FOR EMBANKMENT RESTORATION (TYP)

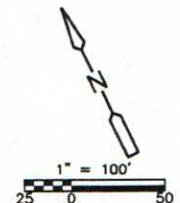
LEGEND

- AREA 1 - FORMER EXPORT PLANT
- AREA 2 - RIVERFRONT PARK
- AREA 3 - EMBANKMENTS
- GUARD RAIL
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- PROPOSED CONTOURS MAJOR
- PROPOSED CONTOURS MINOR

- 2010 QUICK RESPONSE REMOVAL (DO NOT DISTURB)
- SEED RESTORATION (SEE TYPICAL SECTION 1 ON SHEET D1)
- CRUSHED ROCK RESTORATION (SEE TYPICAL SECTION 2 ON SHEET D1)
- EMBANKMENT RESTORATION (SEE TYPICAL SECTION 4 ON SHEET D1)
- UNDER THE BRIDGE RESTORATION (SEE TYPICAL SECTION 5 ON SHEET D1)

AREA OUTSIDE OF THE EXTENT OF THIS DRAWING

- DAVIS CONTROL POINT
- COMPUTED BOUNDARY LOCATIONS PER C.D.S. 233 LCR
- MISCELLANEOUS TREES
- UTILITY POLES
- CHAINLINK FENCE
- LIGHT POST
- RAIL ROAD TIE POSTS
- WATER MAIN
- MONITOR WELL
- SEWER MAINHOLE
- FIRE HYDRANT
- IRRIGATION VALVE
- EXPOSED BURIED POWER LINES
- DECORATIVE ROCKS



UNAVAILABLE, PROCESSED,
THE STATE OF MONTANA
SHED BASE COURSE

3/4 INCHES IN THE
WN IN TABLE 2.

SEED MIX FOR DISTURBED AREAS WITHIN MDT RIGHT OF WAYS

RIPARIAN WHEATGRASS	2 LBS/ACRE
HARD FESCUE	5 LBS/ACRE
TALL FESCUE	3 LBS/ACRE
CANADA BLUEGRASS	5 LBS/ACRE
REGAR MEADOW BROME	5 LBS/ACRE

TOTAL 20 LBS/ACRE

ESTIMATED DISTURBED AREA = 0.5 ACRES

NOTES:

1. EMBANKMENT AREAS SHALL BE SEEDED ACCORDING TO MDT SPECIFICATIONS.
2. SEED MIX IS APPLICABLE FOR ALL AREAS TO BE RESTORED AS HYDROSEED, EMBANKMENT RESTORATION AND PLANTED RIPRAP.
3. CONTRACTOR ALSO RESPONSIBLE FOR RESTORING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.

Revisions			
Symbol	Descriptions	Date	Approved
REV.1	PROJECT REVIEW COMMENTS	2/1/12	GM

CDM Federal Programs Corporation



US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
RAPID RESPONSE PROGRAM

Designed by:

K. MAINZHAUSEN

Drawn by:

K. HUFFSMITH

Checked by:

G. MCKENZIE

Submitted by:

G. MCKENZIE



US EPA
Region VIII
Denver, Colorado

LIBBY ASBESTOS PROJECT
LIBBY, MONTANA

OU1-REMEDIAL ACTION
PROPOSED AREAS 2 & 3
RESTORATION PLAN

Scale: 1" = 100'

Date: FEBRUARY 2012

Dwg. No.: 7

Sheet number:

C5

Plot Scale:

Design File:

File: K:\Libby_OU1\DWG\September 2011
dwg\CS PROPOSED INITIAL GRADING
AREAS 2 & 3.dwg



**OU1 Design Change and Modification Sheet:
Change/Modification # 29**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 5/21/12

Date Executed: 5/24/12

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Detention Basin / Rock Trench, Sheet D2, Detail D. In an effort to maximize the useful life of the drainage features the final lift of cover material will be 6" of 1 1/2" washed rock in lieu of the specified top soil cover.

See attached sketch and photographs for detail.

*consider Leaving Waffles
in place?*

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

Approved:

USACE or EPA:

Date: 5-24-12

City of Libby:

Date: 5/24/2012

Acknowledged:

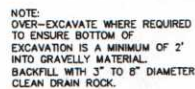
CQC:

Date: 5/24/12

TQA:


Date: 5/24/12


*Leave in place - if City wants
removed we will take care of it.
H 5/24/2012*



C6

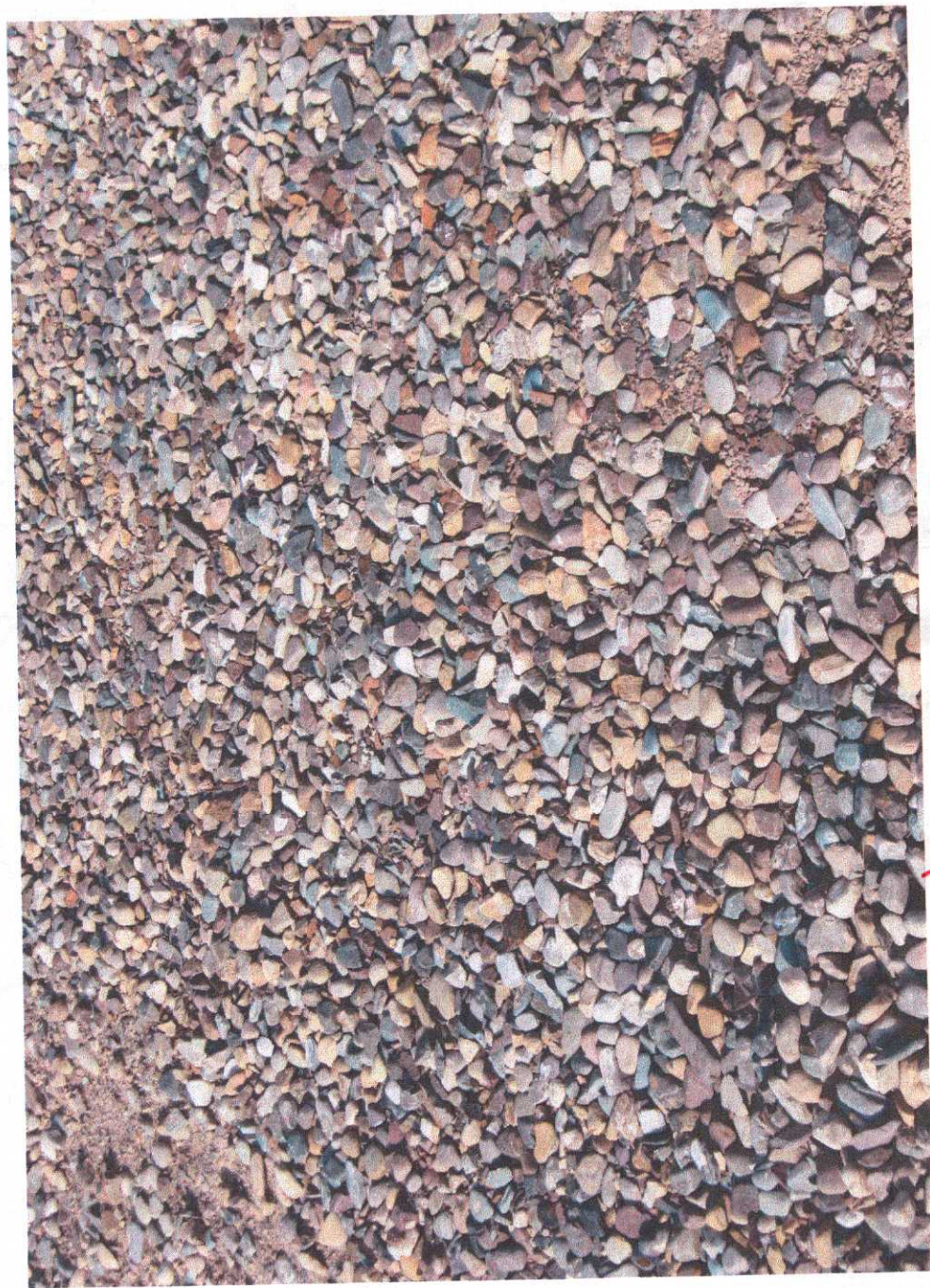
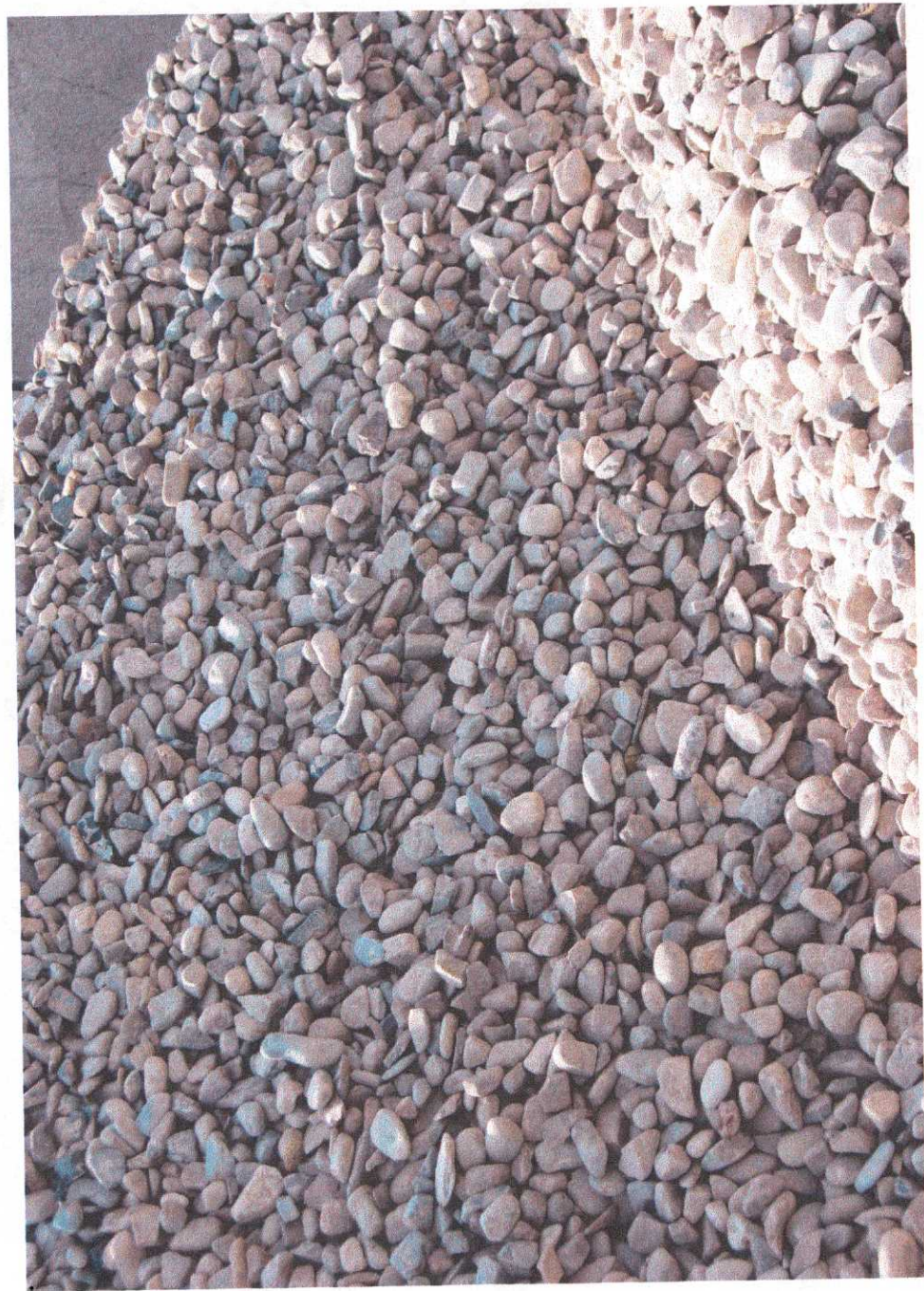
Revisions			
Symbol	Descriptions	Date	Approved
REV.1	PROJECT REVIEW COMMENTS	8/30/11	GM

CDM Federal Programs Corporation		US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM
----------------------------------	--	--

Designed by: WGM GROUP, MISSOULA, MT	 LIBBY ASBESTOS PROJECT LIBBY, MONTANA	OU1-REMEDIAL ACTION WGM DETAILS
Drawn by: K. HUFFSMITH		
Checked by: G. MCKENZIE		
Submitted by: G. MCKENZIE		

Scale:	Sheet number:	Plot Scale:
Date: FEBRUARY 2012	D2	Design File:
Dwg. No.: 17		File K:\Libby_OU1\WGM\September 2011\dwg\02 WGM DESIGN DETAILS.dwg

H



ATTACHMENT 2



ATTACHMENT 3



**OU1 Design Change and Modification Sheet:
Change/Modification # 30**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 5/31/12

Date Executed: 5/31 - 6/1/12

Property ID: _____ Operable Unit 1

Design Change / Modification Description:

The City of Libby has stated that the paving will be limited to City Services Road and the drive to the boat ramp(s). The balance of the driveways and parking lots will be left unpaved for the foreseeable future. At these locations which will not be paved, the final lifts of Montana Public Works spec material will be modified to provide a more durable wearing surface.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

USACE or EPA:

Date:

05/31/2012

City of Libby:

Date:

6/1/2012

Acknowledged:

CQC:

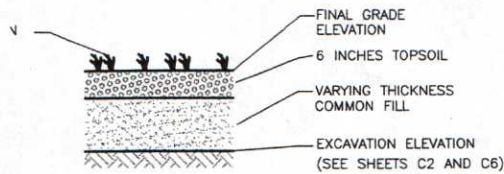
Date:

6/1/12

TQA:

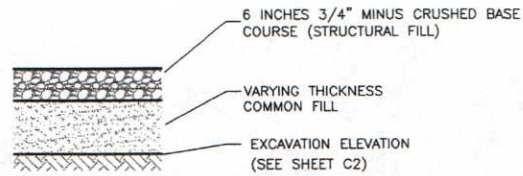
Date:

6/1/12



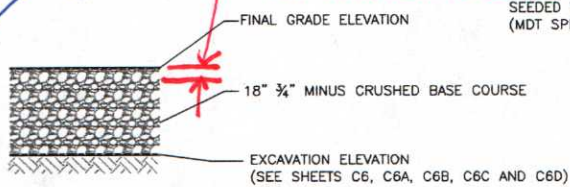
SEED RESTORATION SECTION (TYPICAL)

NTS



CRUSHED ROCK RESTORATION SECTION (TYPICAL)

NTS

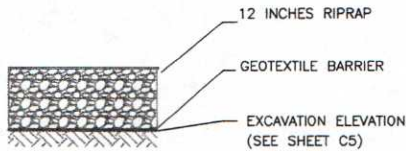


PARKING AREA SECTION (TYPICAL)

NTS

EMBANKMENT RESTORATION SECTION (TYPICAL)

NTS



UNDER BRIDGE RESTORATION SECTION (TYPICAL)

NTS

NOTES:

1. FINAL GRADE AS SHOWN ON TYPICAL SECTIONS 1 AND 3 WERE PROVIDED BY WGM GROUP, MISSOULA, MT.
2. SEE SHEET G2 FOR MATERIAL LEGEND.

JH
6/7/12

TYPICAL CROSS SECTION

DETAIL

NTS

B

C5-C7

RESIDENTIAL LAWN MIX

BARON KENTUCKY BLUEGRASS	60%
BOREAL CREEPING RED FESCUE	20%
BRIGHTSTAR PERENNIAL RYE GRASS	10%
SILVER DOLLAR PERENNIAL RYE GRASS	5%
FIESTA 4 PERENNIAL RYE GRASS	5%

APPLICATION RATE 220-250 LBS/ACRE

PLAYGROUND MIX


BOREAL CREEPING RED FESCUE	27%
BRIGHTSTAR PERENNIAL RYEGRASS	20%
NEXUS XR PERENNIAL RYEGRASS	17%
MOONLIGHT SLT KENTUCKY RYEGRASS	11%
SILVER DOLLAR PERENNIAL RYEGRASS	11%
CORSAIR KENTUCKY BLUEGRASS	7%
BARON KENTUCKY BLUEGRASS	7%

APPLICATION RATE 225-250 LBS/ACRE

NOTES:

1. DISTURBED AREAS SHALL BE SEEDED ACCORDING TO SPECIFICATIONS.
2. EXTENT OF AREAS TO BE SEEDED WITH EACH MIX WILL BE DETERMINED BY THE CITY OF LIBBY AT THE TIME OF SEEDING.

Revisions			
Symbol	Descriptions	Date	Approved
REV.1	PROJECT REVIEW COMMENTS	2/1/12	GM
REV.2	ADDITIONAL PROJECT REVIEW COMMENTS	2/24/12	GM

CDM Federal Programs Corporation		 US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM	
Designed by: K. MAINZHAUSEN T. JOHNSON	LIBBY ASBESTOS PROJECT LIBBY, MONTANA		
Drawn by: K. HUFFSMITH	US EPA Region VIII Denver, Colorado		
Checked by: G. MCKENZIE	OU1-REMEDIAL ACTION DETAILS		
Submitted by: G. MCKENZIE	Scale: Date: FEBRUARY 2012 Dwg. No.: 16	Sheet number: D1	Plot Scale: Design File: File Path: \\libby\c\asbestos\OU1\details\OU1-REMEDIAL ACTION DETAILS.dwg



**OU1 Design Change and Modification Sheet:
Change/Modification # 31**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 6/3/12

Date Executed: 6/6-7/12

Property ID: _____ Operable Unit 1 (Area 2)

Design Change / Modification Description:

Rip Rap Revetment, Sheet D1, Detail C. Due to the shallow subsurface utilities routed along what is now the top of the slope, which prohibits the excavation specified for the installation of the soils and associated erosion measures, this item of work is deleted in accordance with USACE and the EPA direction.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

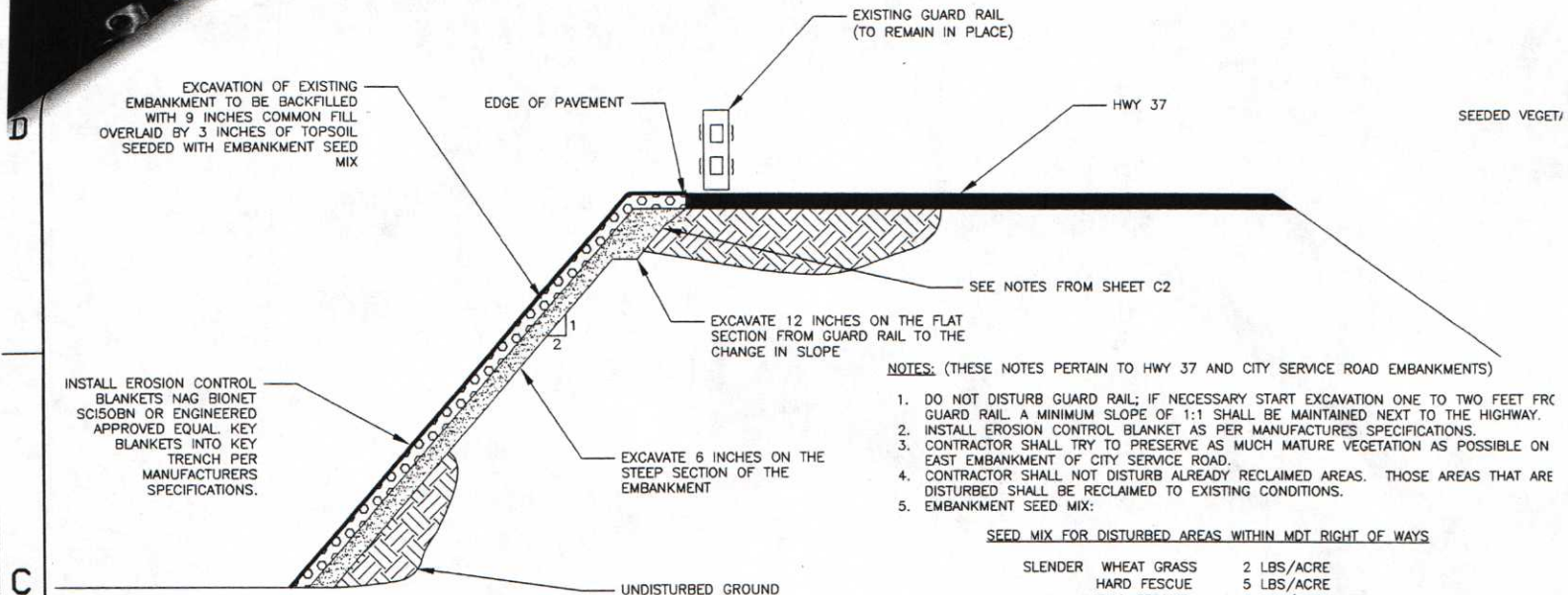
USACE or EPA: [Signature] Date: 6/6/12

City of Libby: [Signature] Date: 6/7/12

Acknowledged:

CQC: [Signature] Date: 6/7/12

TQA: [Signature] Date: 6/7/12



NOTES: (THESE NOTES PERTAIN TO HWY 37 AND CITY SERVICE ROAD EMBANKMENTS)

1. DO NOT DISTURB GUARD RAIL; IF NECESSARY START EXCAVATION ONE TO TWO FEET FROM GUARD RAIL. A MINIMUM SLOPE OF 1:1 SHALL BE MAINTAINED NEXT TO THE HIGHWAY.
2. INSTALL EROSION CONTROL BLANKET AS PER MANUFACTURER'S SPECIFICATIONS.
3. CONTRACTOR SHALL TRY TO PRESERVE AS MUCH MATURE VEGETATION AS POSSIBLE ON EAST EMBANKMENT OF CITY SERVICE ROAD.
4. CONTRACTOR SHALL NOT DISTURB ALREADY RECLAIMED AREAS. THOSE AREAS THAT ARE DISTURBED SHALL BE RECLAIMED TO EXISTING CONDITIONS.
5. EMBANKMENT SEED MIX:

SEED MIX FOR DISTURBED AREAS WITHIN MDT RIGHT OF WAYS

SLENDER WHEAT GRASS	2 LBS/ACRE
HARD FESCUE	5 LBS/ACRE
TALL FESCUE	3 LBS/ACRE
CANADA BLUEGRASS	5 LBS/ACRE
REGAR MEADOW BROME	5 LBS/ACRE

TOTAL 20 LBS/ACRE

DISTURBED AREAS SHALL BE SEEDED ACCORDING TO MDT SPECIFICATIONS.

TYPICAL EMBANKMENT RESTORATION

DETAIL

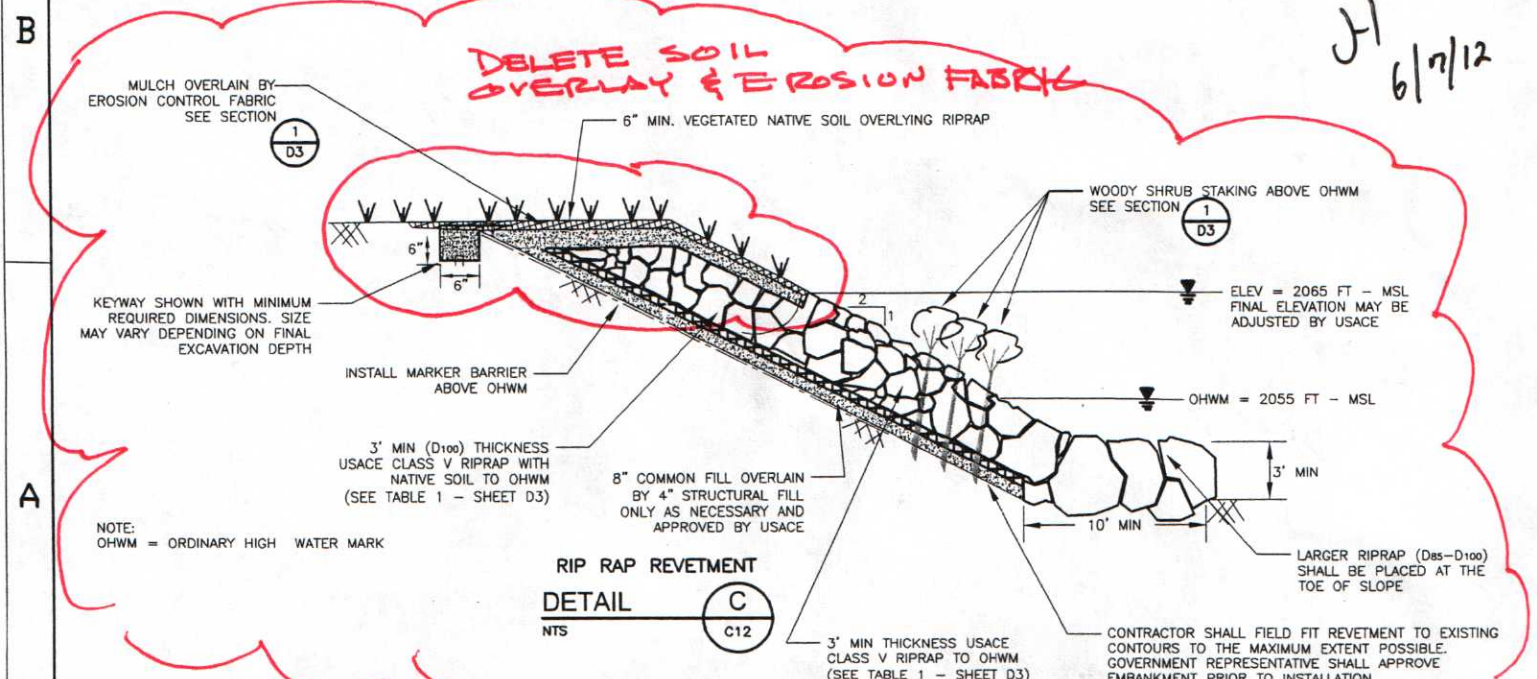
NTS

A

C5

RESTORATION NOTES:

1. ALL RESTORATION MATERIALS AND SOIL COMPACTION SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. NOT ALL RESTORATION DETAILS MAY BE USED WITHIN THESE PROJECT DOCUMENTS.





**OU1 Design Change and Modification Sheet:
Change/Modification # 32**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 6/3/12

Date Executed: 6/6/12

Property ID: _____ Operable Unit 1

Design Change / Modification Description:

OU1-Remedial Action Proposed Overall Grading and Restoration Plan (Northeast Area), Sheet C6C. Relocate the new City Service Road tie-in location from the current specified location. This relocation will minimize the amount of excavation and restoration work required to complete the eastern roadway tie-in.

To facilitate the proposed tie-in relocation, the roadway profile and the camber (in the curve portion of the road) have been altered to provide a smooth transition from the new roadway to the existing.

Reference attached drawings for detail.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

USACE or EPA: Jeffrey A. Abbott Date: 6/6/12

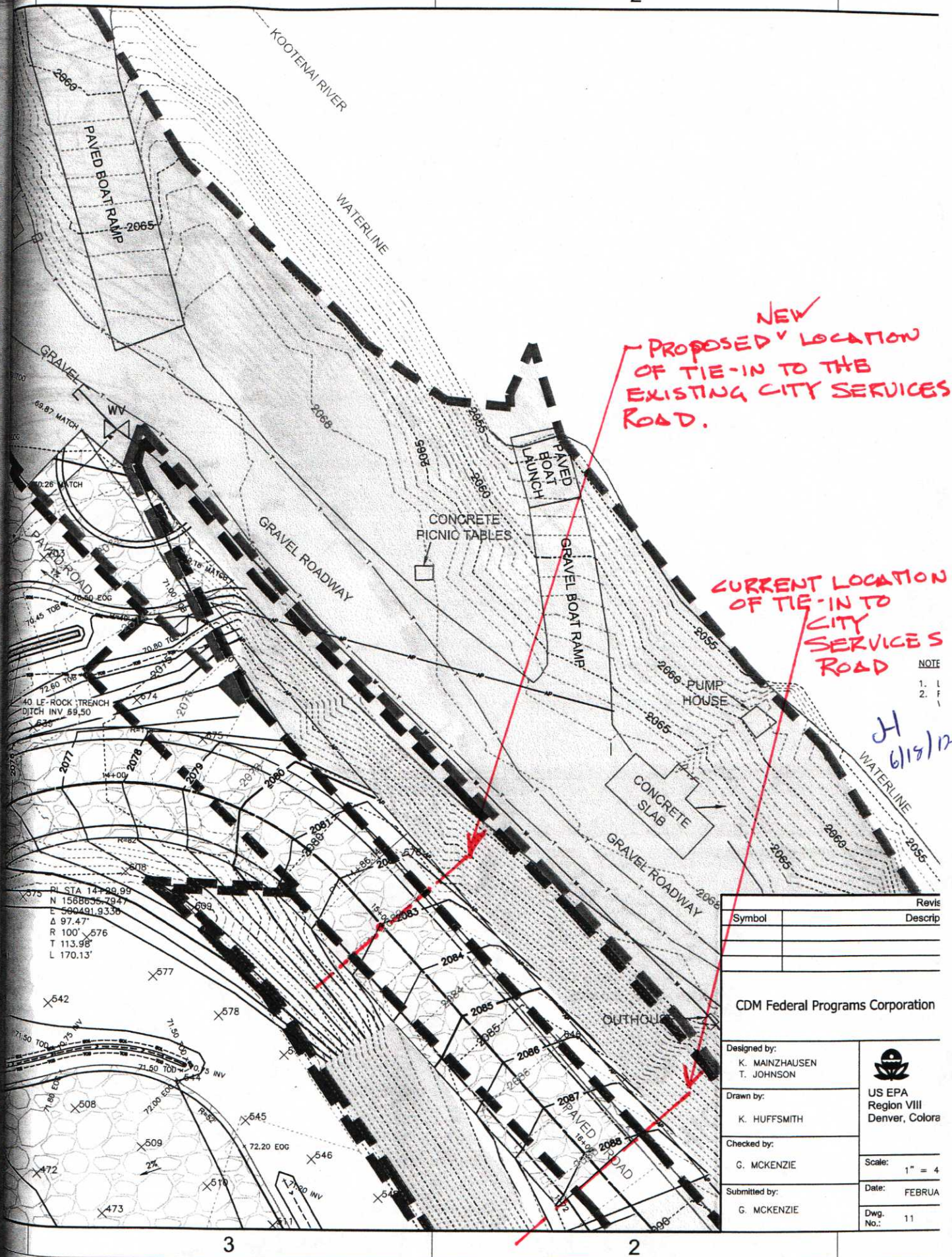
City of Libby: Jim Hammond Date: 6/18/2012

Acknowledged:

CQC: [Signature] Date: 6/18/2012

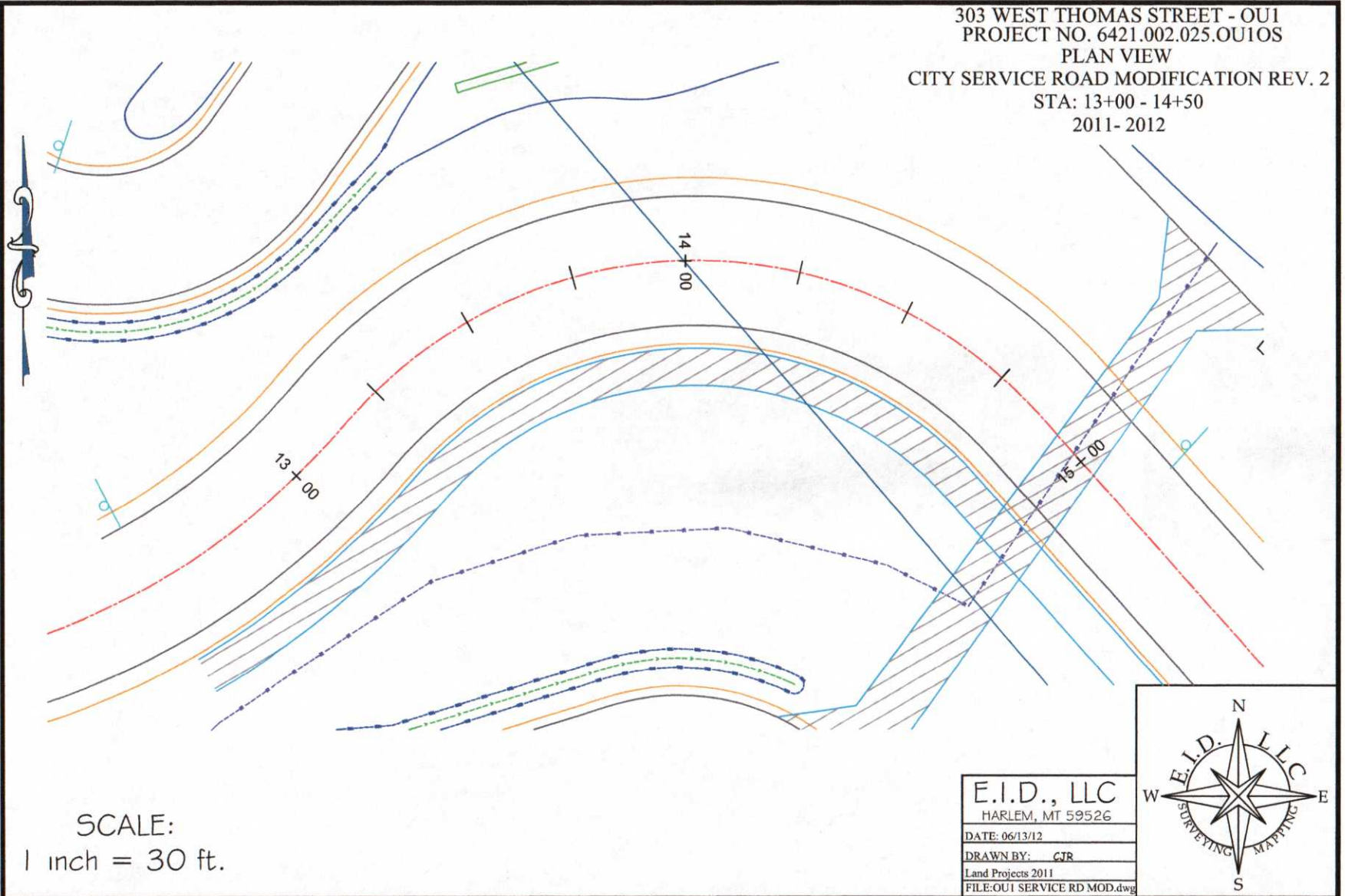
TQA: [Signature]

Date: 6/18/2012



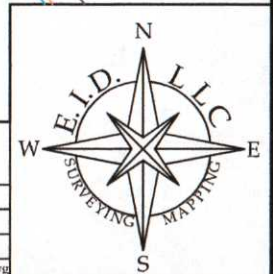
H
6/13/12

303 WEST THOMAS STREET - OUI
PROJECT NO. 6421.002.025.OU10S
PLAN VIEW
CITY SERVICE ROAD MODIFICATION REV. 2
STA: 13+00 - 14+50
2011-2012



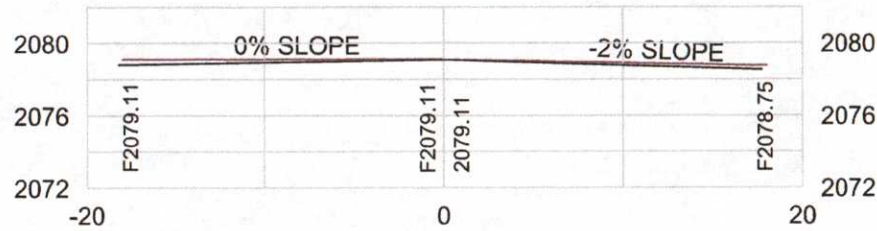
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1 inch = 30 ft.

E.I.D., LLC
HARLEM, MT 59526
DATE: 06/13/12
DRAWN BY: CJR
Land Projects 2011
FILE: OUI SERVICE RD MOD.dwg

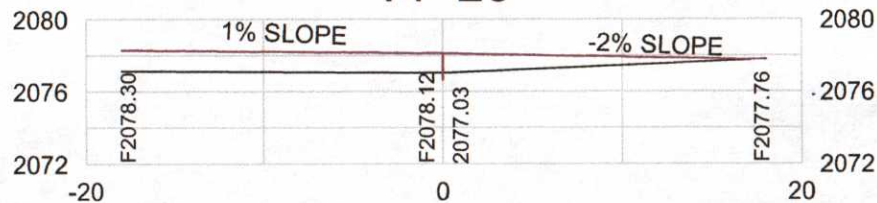


Handwritten: 6/13/12

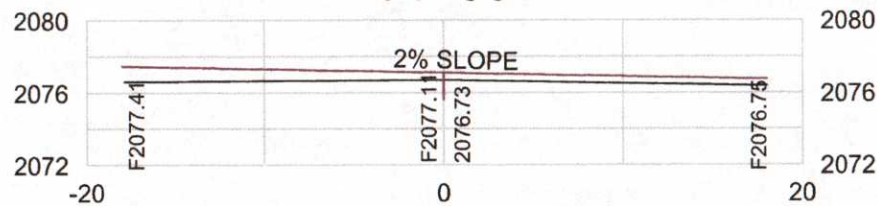
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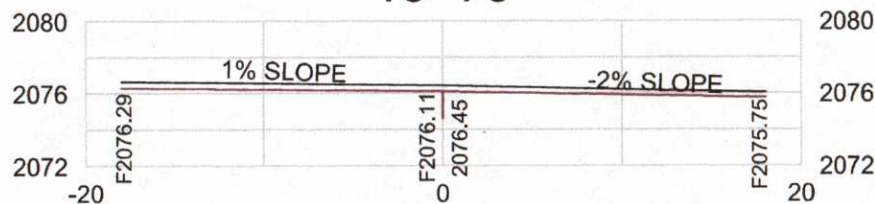
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14+00



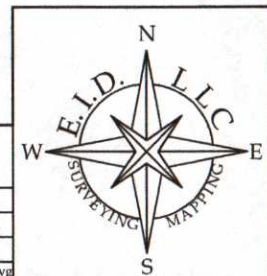
13+75



303 WEST THOMAS STREET - OUI
PROJECT NO. 6421.002.025.OUIOS
CROSS SECTIONS
CITY SERVICE ROAD MODIFICATION REV. 2
STA: 13+00 - 14+50
2011- 2012

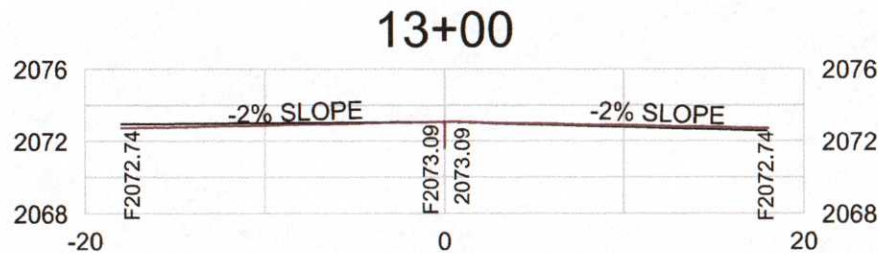
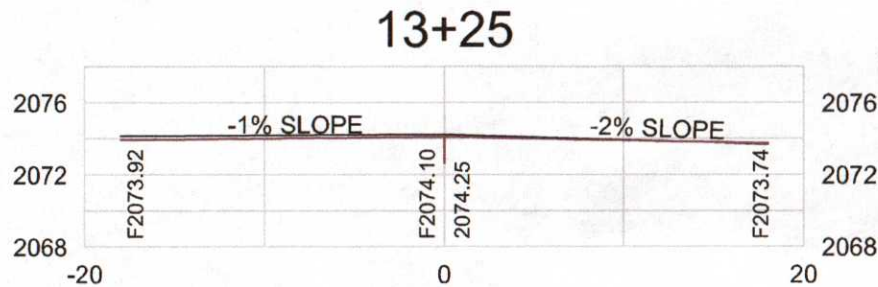
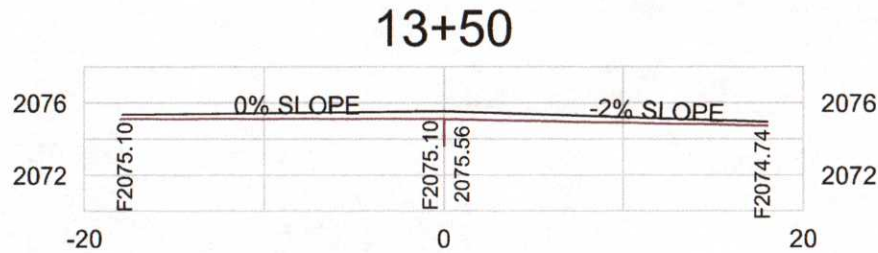
SCALE:
1 inch = 10 ft.

E.I.D., LLC
HARLEM, MT 59526
DATE: 06/13/12
DRAWN BY: CTR
Land Projects 2011
FILE: OUI SERVICE RD MOD.dwg



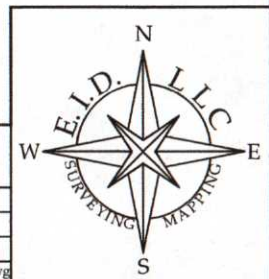
5/18/12
6/18/12

303 WEST THOMAS STREET - OUI
PROJECT NO. 6421.002.025.OUIOS
CROSS SECTIONS
CITY SERVICE ROAD MODIFICATION REV. 2
STA: 13+00 - 14+50
2011- 2012



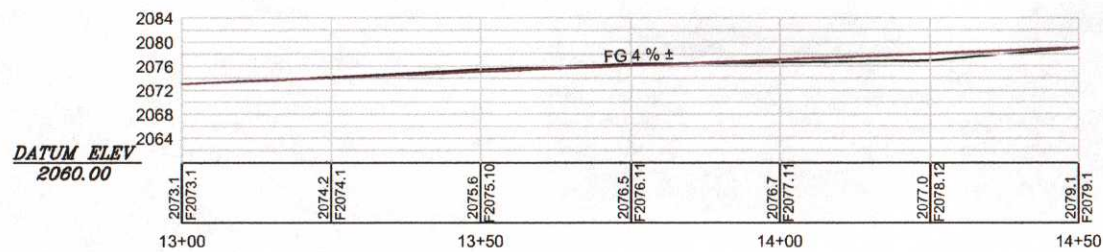
SCALE:
1 inch = 10 ft.

E.I.D., LLC
HARLEM, MT 59526
DATE: 06/13/12
DRAWN BY: GJR
Land Projects 2011
FILE:OUI SERVICE RD MOD.dwg



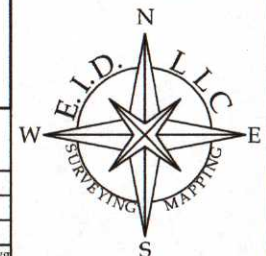
6/18/12

303 WEST THOMAS STREET - OU1
PROJECT NO. 6421.002.025.OU1OS
PROFILE VIEW
CITY SERVICE ROAD MODIFICATION REV. 2
STA: 13+00 - 14+50
2011- 2012



SCALE:
1 inch = 30 ft.

E.I.D., LLC
HARLEM, MT 59526
DATE: 06/13/12
DRAWN BY: CJR
Land Projects 2011
FILE:OU1 SERVICE RD MOD.dwg





**OU1 Design Change and Modification Sheet:
Change/Modification # 33**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 6/6/12 Date Executed: 6/6/12

Property ID: _____ Operable Unit 1

Design Change / Modification Description:

OU1-Remedial Action, restoration Seeding Schedule

Reference attached drawing for detail.

Changes marked on Quality Control Plans? Yes X No _____

Signatures:

Approved:

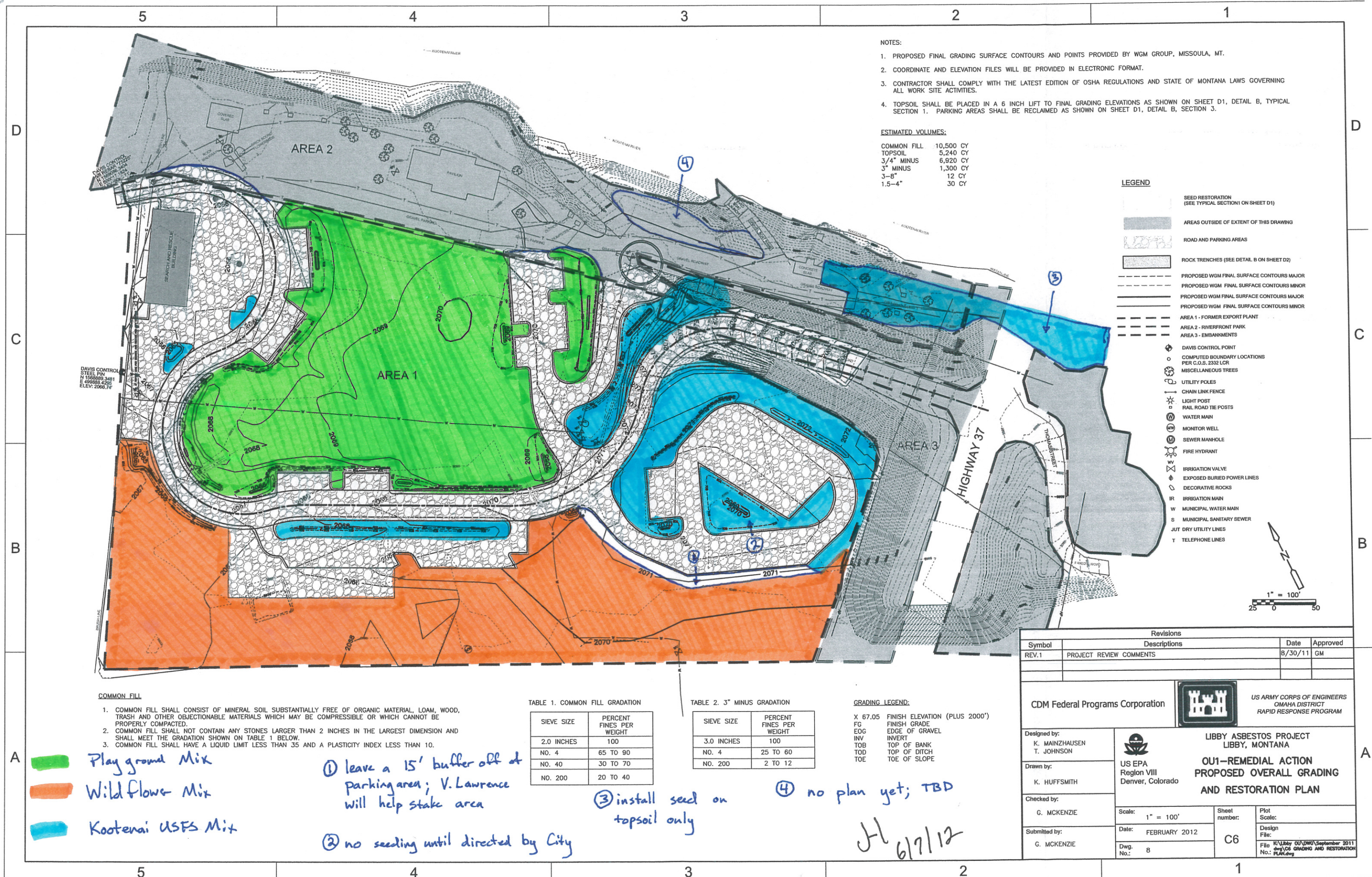
USACE or EPA: [Signature] Date: 6/6/12

City of Libby: Jim Hammon Date: 6/7/12

Acknowledged:

CQC: [Signature] Date: 6/7/12

TQA: [Signature] Date: 6/7/12

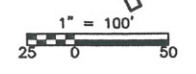


- NOTES:
1. PROPOSED FINAL GRADING SURFACE CONTOURS AND POINTS PROVIDED BY WGM GROUP, MISSOULA, MT.
 2. COORDINATE AND ELEVATION FILES WILL BE PROVIDED IN ELECTRONIC FORMAT.
 3. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF OSHA REGULATIONS AND STATE OF MONTANA LAWS GOVERNING ALL WORK SITE ACTIVITIES.
 4. TOPSOIL SHALL BE PLACED IN A 6 INCH LIFT TO FINAL GRADING ELEVATIONS AS SHOWN ON SHEET D1, DETAIL B, TYPICAL SECTION 1. PARKING AREAS SHALL BE RECLAIMED AS SHOWN ON SHEET D1, DETAIL B, SECTION 3.

ESTIMATED VOLUMES:

COMMON FILL	10,500 CY
TOPSOIL	5,240 CY
3/4" MINUS	6,920 CY
3" MINUS	1,300 CY
3-8"	12 CY
1.5-4"	30 CY

- LEGEND
- SEED RESTORATION (SEE TYPICAL SECTION 1 ON SHEET D1)
 - AREAS OUTSIDE OF EXTENT OF THIS DRAWING
 - ROAD AND PARKING AREAS
 - ROCK TRENCHES (SEE DETAIL B ON SHEET D2)
 - PROPOSED WGM FINAL SURFACE CONTOURS MAJOR
 - PROPOSED WGM FINAL SURFACE CONTOURS MINOR
 - PROPOSED WGM FINAL SURFACE CONTOURS MAJOR
 - PROPOSED WGM FINAL SURFACE CONTOURS MINOR
 - AREA 1 - FORMER EXPORT PLANT
 - AREA 2 - RIVERFRONT PARK
 - AREA 3 - EMBANKMENTS
 - DAVIS CONTROL POINT
 - COMPUTED BOUNDARY LOCATIONS PER C.O.S. 2332 LCR
 - MISCELLANEOUS TREES
 - UTILITY POLES
 - CHAIN LINK FENCE
 - LIGHT POST
 - RAIL ROAD TIE POSTS
 - WATER MAIN
 - MONITOR WELL
 - SEWER MANHOLE
 - FIRE HYDRANT
 - IRRIGATION VALVE
 - EXPOSED BURIED POWER LINES
 - DECORATIVE ROCKS
 - IR IRRIGATION MAIN
 - W MUNICIPAL WATER MAIN
 - S MUNICIPAL SANITARY SEWER
 - JUT DRY UTILITY LINES
 - T TELEPHONE LINES



- COMMON FILL
1. COMMON FILL SHALL CONSIST OF MINERAL SOIL SUBSTANTIALLY FREE OF ORGANIC MATERIAL, LOAM, WOOD, TRASH AND OTHER OBJECTIONABLE MATERIALS WHICH MAY BE COMPRESSIBLE OR WHICH CANNOT BE PROPERLY COMPACTED.
 2. COMMON FILL SHALL NOT CONTAIN ANY STONES LARGER THAN 2 INCHES IN THE LARGEST DIMENSION AND SHALL MEET THE GRADATION SHOWN ON TABLE 1 BELOW.
 3. COMMON FILL SHALL HAVE A LIQUID LIMIT LESS THAN 35 AND A PLASTICITY INDEX LESS THAN 10.

TABLE 1. COMMON FILL GRADATION

SIEVE SIZE	PERCENT FINES PER WEIGHT
2.0 INCHES	100
NO. 4	65 TO 90
NO. 40	30 TO 70
NO. 200	20 TO 40

TABLE 2. 3" MINUS GRADATION

SIEVE SIZE	PERCENT FINES PER WEIGHT
3.0 INCHES	100
NO. 4	25 TO 60
NO. 200	2 TO 12

- GRADING LEGEND:
- X 67.05 FINISH ELEVATION (PLUS 2000')
 - FG FINISH GRADE
 - EOG EDGE OF GRAVEL
 - INV INVERT
 - TOD TOP OF BANK
 - TOD TOP OF DITCH
 - TOE TOE OF SLOPE

- Playground Mix
- Wildflower Mix
- Kootenai USFS Mix

- ① leave a 15' buffer off of parking area; V. Lawrence will help stake area
- ② no seeding until directed by City
- ③ install seed on topsoil only
- ④ no plan yet; TBD

HL 6/7/12

Revisions			
Symbol	Descriptions	Date	Approved
REV.1	PROJECT REVIEW COMMENTS	8/30/11	GM

CDM Federal Programs Corporation

US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
RAPID RESPONSE PROGRAM

Designed by:
K. MAINZHAUSEN
T. JOHNSON

Drawn by:
K. HUFFSMITH

Checked by:
G. MCKENZIE

Submitted by:
G. MCKENZIE

US EPA
Region VIII
Denver, Colorado

LIBBY ASBESTOS PROJECT
LIBBY, MONTANA
OU1-REMEDIATION ACTION
PROPOSED OVERALL GRADING
AND RESTORATION PLAN

Scale: 1" = 100'

Date: FEBRUARY 2012

Dwg. No.: 8

Sheet number:
C6

Plot Scale:

Design File:
File: R:\Libby OU1\DWG\September 2011
dwg\OU1 GRADING AND RESTORATION
No.: PLAN.dwg



**OU1 Design Change and Modification Sheet:
Change/Modification # 34**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 6/25/12

Date Executed: 6/25/12

Property ID: _____ Operable Unit 1

Design Change / Modification Description:

Sheet C7, Proposed Bank and Boat Ramp Restoration Plan. Eliminate 8 l.f. of articulated concrete mat (ArmorFlex Mat). The concrete poured at the bottom of the ramp to correct the approach angle necessitates the elimination of the mat section. The additional lineal footage added to the ramp creates a high spot at the top of ramp when tying into the existing grade.
Reference attached drawing.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

USACE or EPA: [Signature]

Date: 06/25/12

City of Libby: Jim Hammon

Date: 6/25/2012

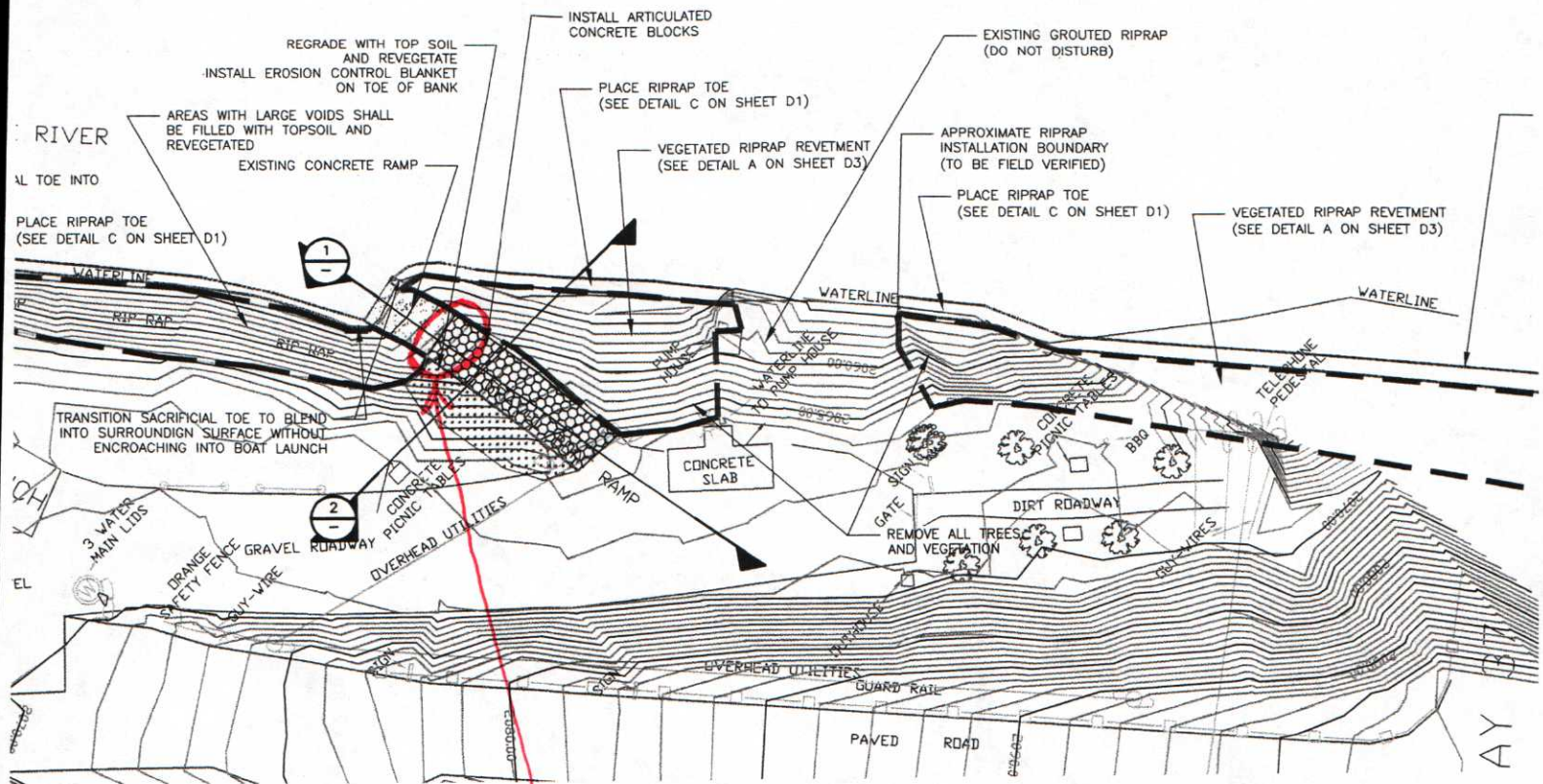
Acknowledged:

CQC: [Signature]

Date: 6/25/12

TQA: [Signature]

Date: 6/25/12



INSTALLATION AND AREAS WHERE LARGE VOIDS
BOUNDARY TO BE FIELD VERIFIED
PRESENTATIVE).

REPLACEMENT BOUNDARY (TO BE FIELD VERIFIED
PRESENTATIVE).

TO BE BACKFILLED WITH TOP SOIL AND REVEGETATED

CONCRETE BLOCKS

**84% OF ARTICULATED CONCRETE MAT
ELIMINATED, CONCRETED
POURED IN LIEU OF MAT
TO FACILITATE RAMP
ANGLE CORRECTION.**

IS ARMORFLEX MATS)

ROCK) BACKFILL WITH
4000 PSI CONCRETE WITH
2" MIN. THICKNESS OVER
ANCHORED TOE OF
ARTICULATED CONCRETE MAT
(TYP. TOP AND BOTTOM OF RAMP)
WITH 0.45 MAX. WATER-CEMENT RATIO



EXISTING CONCRETE RAMP

3' MIN. CONCRETE ANCHOR
4-#4 REBAR AS SHOWN

CONCRETE BLOCKS (50S ARMORFLEX MATS
3 EQUAL)
WITH 1.5" CRUSHED ROCK)

ABRIC CONTECH C70/D6
LOVED EQUAL
BX1100 OR BX1200 GEOGRID
LOVED EQUAL

FILL BED
SENTATIVE

NOTE:
SEE MANUFACTURER'S DETAILS FOR INSTALLATION PROCEDURES.

WEST EMBANKMENT -
BACKFILL AND COMPACT WITH COMMON FILL
OVERLAIN BY 6 INCHES OF TOPSOIL
TIE INTO EXISTING BANK

**SHT. C7
PROPOSED BANK AND BOAT
RAMP RESTORATION PLAN**

NOTES:

- INSTALL BOAT RAMP ARTICULATED CONCRETE BLOCKS AS PER MANUFACTURER'S SPECIFICATIONS.
- EXISTING CONCRETE RAMP SHALL NOT BE DISTURBED. ANY DAMAGE TO THE EXISTING CONCRETE RAMP SHALL BE RESTORED TO THE EXISTING CONDITIONS AT NO EXPENSE TO THE GOVERNMENT.
- APPROXIMATE DIMENSION OF THE BOAT RAMP AREA TO BE IMPROVED WITH ARTICULATED CONCRETE BLOCKS IS 60 FT LONG BY 20 FT WIDE NOT INCLUDING ANCHORS.
- THE EAST BANK OF THE BOAT RAMP SHALL BE PROTECTED WITH PLANTED RIPRAP. THE RIPRAP SHALL BE PLACED AROUND THE MATURE SAPLING COTTONWOOD TREES SUCH THAT MINIMAL DAMAGE TO THE TREE OCCURS.
- THE WEST BANK SHALL BE BACKFILLED AND COMPACTED WITH COMMON FILL OVERLAIN WITH 6 INCHES OF TOPSOIL BEFORE REVEGETATING. AN EROSION CONTROL BLANKET SHALL BE INSTALLED ON THE TOE OF THE BANK AS PER MANUFACTURER'S SPECIFICATIONS.
- REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM SPECIFICATION A615, GRADE 60. FIELD BEND BARS AS NEEDED AROUND ACI & CRSI APPROVED DEVICES.

VEHICULAR CROSSING
(20 FT WIDE)

EAST
INSTALLED
SEEDS

Symbol	
REV.1	PROJECT REVIEW COMM
REV.2	ADDITIONAL PROJECT R

CDM Federal Programs Corp

Designed by:	K. MAINZHAUSEN T. JOHNSON	US E Regl Denv
Drawn by:	K. HUFFSMITH	
Checked by:	G. MCKENZIE	Scale:
Submitted by:	G. MCKENZIE	Date:
		Dwg. No.:



**OU1 Design Change and Modification Sheet:
Change/Modification # 35**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 6/25/12

Date Executed: 6/25/12

Property ID: _____ Operable Unit 1

Design Change / Modification Description:

Sheet C6B, Proposed Final Grading and Restoration Plan (Search and Rescue Area). With the City of Libby's approval, eliminate two planter areas and restore as parking area. One located south of the search and rescue building and one located south east adjacent City Services Road.
Reference attached drawing.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

USACE or EPA: [Signature]

Date: 6/25/12

City of Libby: Jim Hammer

Date: 6/25/2012

Acknowledged:

CQC: [Signature]

Date: 6/25/12

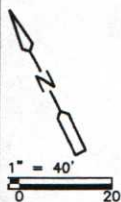
TQA: [Signature]

Date: 6/25/12

5

4

3



SEND INCLUDED IN SHEET C6.
AD ALIGNMENT AND ELEVATIONS PROVIDED BY
M GROUP, MISSOULA, MONTANA.

SHT. C6B
PROPOSED FINAL GRADING
AND RESTORATION PLAN
(SEARCH AND RESCUE AREA)

DAVIS CONTROL
5/8 REBAR "7322S"
N 1569086.3404
E 500017.1824
ELEV: 2065.71

TIE TO EXISTING GRADE
AT MAX 5% SLOPE

PROPERTY LINE
(APPROXIMATE)

SEARCH AND RESCUE
BUILDING

**DELETE
PLANTER
AREAS**

DAVIS CONTROL
STEEL PIN
N 1568889.3481
E 499888.4295
ELEV: 2066.74

ADJUST VALVE BOX TO
FINISHED GRADE

PLACE STEEL LANDSCAPING
EDGER OR OTHER MATERIAL
BETWEEN GRAVEL AND GRASS
TO PREVENT GRAVEL MOVEMENT
TO BASIN, WITH OPENING AS
NOTED FOR RUNOFF.

GRASS DEPRESSION
(NO ROCK TRENCH)
INV 64.75

PI STA 4+31.77
N 1568843.2584
E 500070.1543
Δ 62.11'
R 100'
T 60.22'
L 108.40'

FROM SHT C6B

JH 6/25/12



**OU1 Design Change and Modification Sheet:
Change/Modification # 36**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 6/27/12

Date Executed: 6/29/12

Property ID: _____ Operable Unit 1

Design Change / Modification Description:

Sheet C6, Driveway to the boat ramps. Eliminate remainder portion of circular planter area and modify the curvature of the drive to the east of the circular planter to eliminate abrupt curve in drive.

Reference attached drawings.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

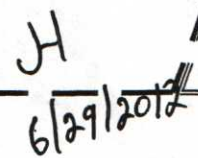
USACE or EPA: B. B. Date: 6-29-12

City of Libby: Jim Hamman Date: 6/29/2012

Acknowledged:

CQC: [Signature] Date: 6/29/12

TQA: [Signature] Date: 6/29/12



SHALL HAVE A LIQUID LIMIT LESS THAN 35 AND A PLASTICITY INDEX LESS THAN 10.

G

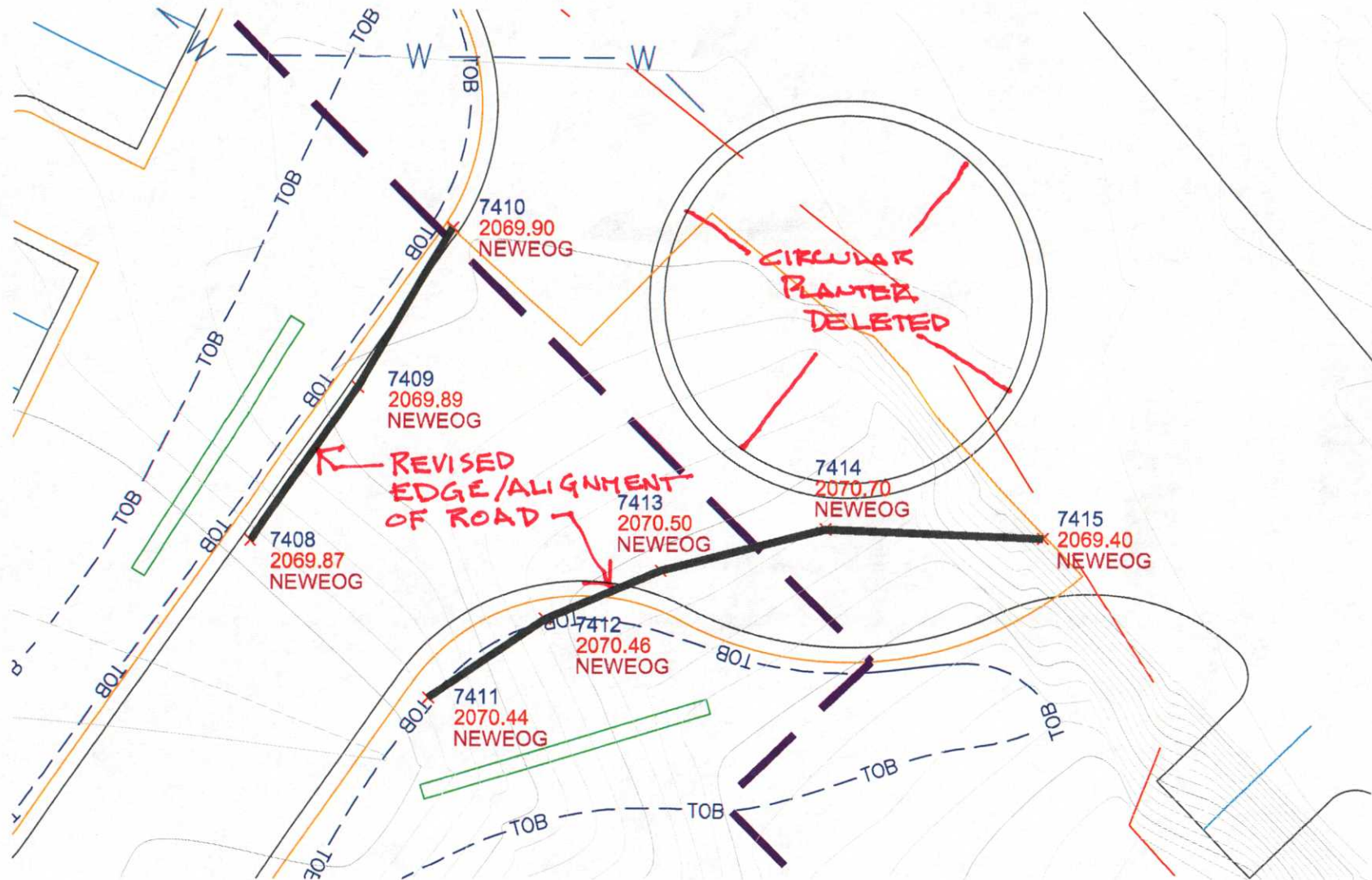
X
F
E
IN
T
T
T

OU1 PARKING AREA MODIFICATION

SCALE: 1" = 20'

DATE: 6-27-12

7/27/2012
H





**OU1 Design Change and Modification Sheet:
Change/Modification # 37**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 6/27/12

Date Executed: 6/29/12

Property ID: _____ Operable Unit 1

Design Change / Modification Description:

Sheet C7, Section 1.

The tie in at the top of the boat ramp to the concrete pad will be modified from the detail shown to a reinforced, 6" thick concrete slab poured flush against the ArmorFlex Mat material.

The 1.5" crushed rock fill specified in the plans is to large for filling the voids in the ArmorFlex mat, a ¾" road base material will be installed to fill the voids.

Reference attached drawing.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

USACE or EPA: [Signature]

Date: 6-29-12

City of Libby: Jim Hammour

Date: 6/29/2012

Acknowledged:

CQC: [Signature]

Date: 6/29/12

TQA: [Signature]

Date: 6/29/12



**OU1 Design Change and Modification Sheet:
Change/Modification # 38**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 6/28/12

Date Executed: 6/29/12

Property ID: _____ Operable Unit 1

Design Change / Modification Description:

Sheet C6C, The parking lot located southeast of the pavilion will have the grade at the north end of the lot modified to provide a gentle transition from the lot to the existing grade in Area 2. This modification is being made at the request of the City of Libby and the EPA.

See attached drawing for location.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

USACE or EPA: [Signature]

Date: 6-29-12

City of Libby: Jim Hammon

Date: 6/29/2012

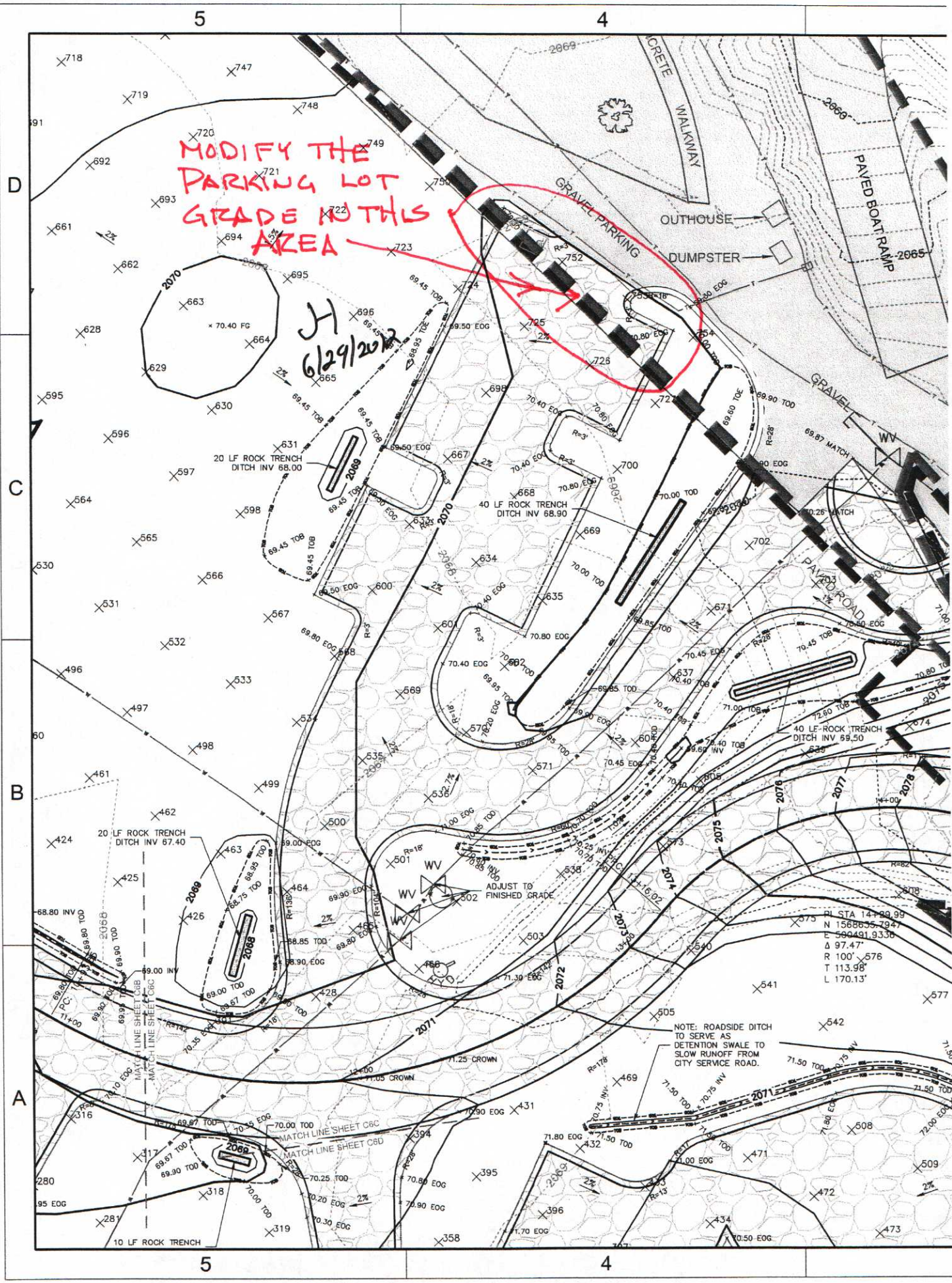
Acknowledged:

CQC: [Signature]

Date: 6/29/12

TQA: [Signature]

Date: 6/29/12





OU1 Design Change and Modification Sheet:
Change/Modification # 38, 39

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 6/28/12

Date Executed: 6/29/12

Property ID: _____ Operable Unit 1

Design Change / Modification Description:

Sheet C6A, the excavation depth at the west tie area to City Services Road was modified due to an active, shallow, fiber optics cable. New cables had been installed but the change over never made by the cable company. The excavation depth and backfill in this area is 14.5" and will have asphalt pavement installed by the city when the new road way is paved, resulting in a cap of approximately 18" with the top layer being asphaltic concrete.

The "Super" in the curved portion of City Services Road was reduced 4 tenths to reduce the abrupt drop off from the road to the lawn area from 12" to a sloping 8 tenths.

See attached drawing for location.

Changes marked on Quality Control Plans? Yes ☒ No ☐

Signatures:

Approved:

USACE or EPA: [Signature]

Date: 6-29-12

City of Libby: Jim Hammone

Date: 6/29/2012

Acknowledged:

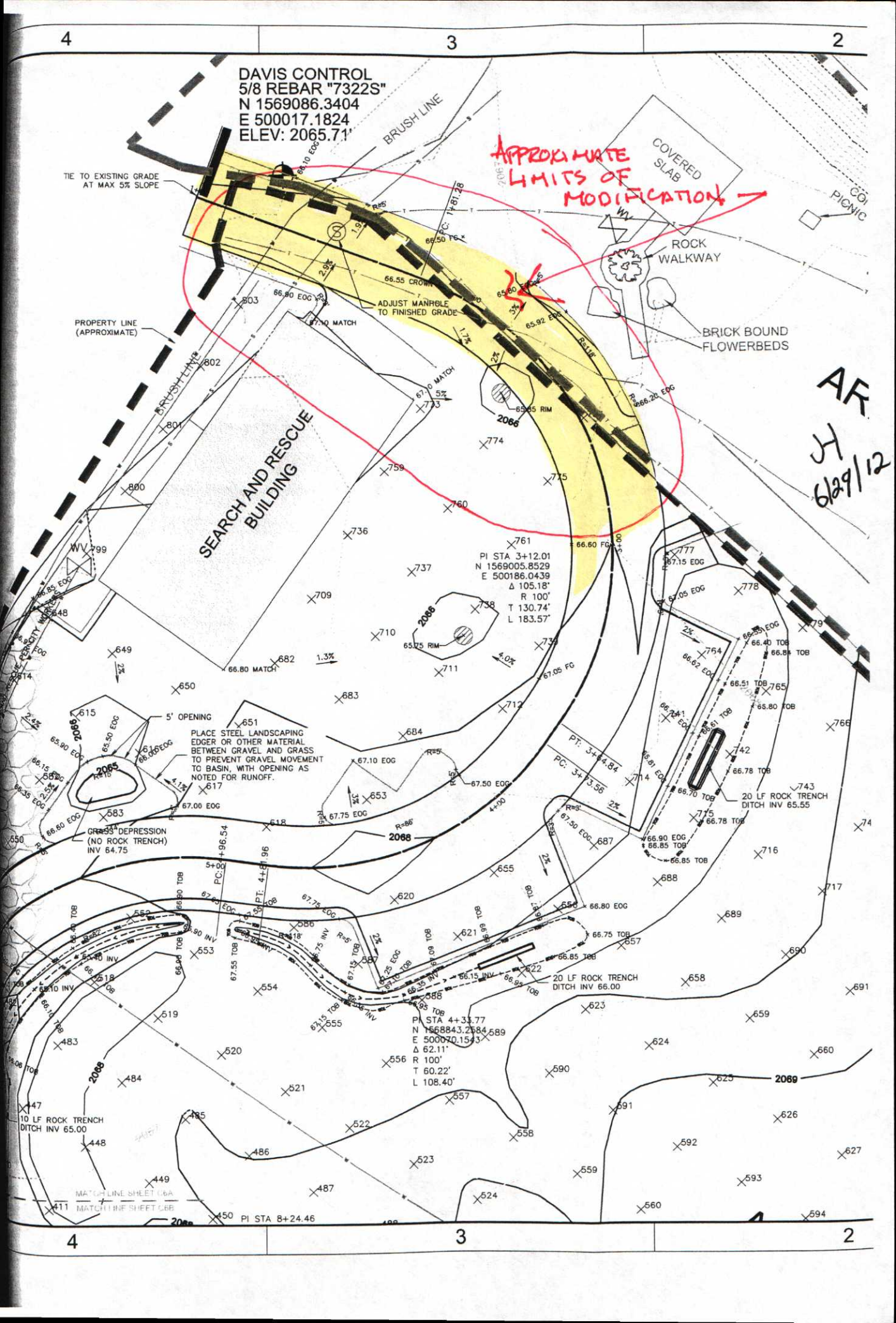
CQC: [Signature]

Date: 6/29/12

TQA: [Signature]

Date: 6/29/12

PI STA 8+24.46





**OU1 Design Change and Modification Sheet:
Change/Modification # 40**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 7/17/12

Date Executed: 7/19/12

Property ID: _____ Operable Unit 1, Area 1

Design Change / Modification Description:

Reference Sheet C6A, Titled OU1-Remedial Action, Proposed Final Grading and Restoration Plan (Search and Rescue Area). As the result of unseasonably heavy rains the drainage system was overwhelmed and a portion of the new City Services Road flooded. The portion of the road which flooded is by design the low point in the road. There are two rock trench drains in this area. One on either side of the roadway. Both of the drains were built as designed (see attached detail sheet) but failed to be capable of handling the volume of water which resulted from the event, thereby allowing the road to flood. On July 17, 2012, the City of Libby formally requested help from the EPA to correct the issue. A determination was made that the drains had to be significantly deepened to facilitate a greater volume of water. The west drain was dug to a depth of approximately 8' at which point ground water was encountered. The width of the drain was increased to a width of approximately 14', with the length remaining at the design length of 20'. The smaller drain on the east side of the road was excavated to a depth of 6' and to width of approximately 5', the length remained as designed at 10'. The small drain's close proximity to the roadway prohibited further widening or deepening of the excavation. A marker barrier was installed as prescribed. The excavation(s) back filled with a combination of 3-6" rock with a 1 1/2" washed rock cap. Filter fabric was installed to prevent premature sedimentary clogging of the drain, and the rock inlet was ringed with straw wattle as a sedimentary barrier. Additionally a broad swell was created as an overflow from the west drainage structure to the adjacent property to the west as approved by the City of Libby.

See attached drawing(s) for location of drains/flooding and the designed rock trench detail.

Changes marked on Quality Control Plans? Yes X No _____

Signatures:

Approved:

USACE or EPA: _____

Date: 8-14-12

City of Libby: Jim Hammone

Date: 8/14/2012

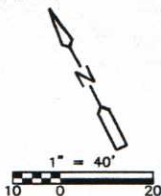
Acknowledged:

CQC: _____

Date: 8/14/12

TQA: for Salvo

Date: 8/14/12



NOTES:

1. LEGEND INCLUDED IN SHEET C6.
2. ROAD ALIGNMENT AND ELEVATIONS PROVIDED BY WGM GROUP, MISSOULA, MONTANA.

DAVIS CONTROL
5/8 REBAR "7322S"
N 1569086.3404
E 500017.1824
ELEV: 2065.71

TIE TO EXISTING GRADE
AT MAX 5% SLOPE

PROPERTY LINE
(APPROXIMATE)

SEARCH AND RESCUE
BUILDING

DAVIS CONTROL
STEEL PIN
1568889.3481
499888.4295
ELEV: 2066.74

ADJUST VALVE BOX TO
FINISHED GRADE

APPROX. AREA OF
FLOODING

ROCK DRAINS

20 LF ROCK TRENCH
DITCH INV 64.25

10 LF ROCK TRENCH
DITCH INV 65.00

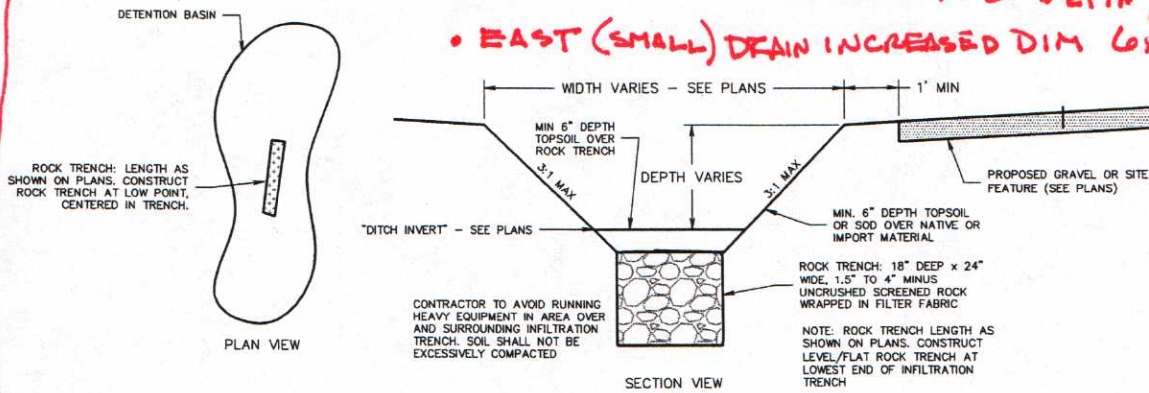
MATCH LINE SHEET C6A

MATCH LINE SHEET C6B

450 PI STA 8+24.46

PORTION OF SHIT C6A

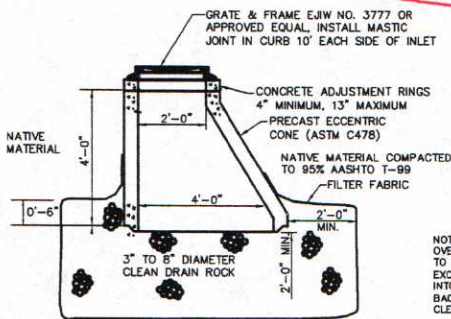
- WEST (LARGE) DRAIN INCREASED DIM. 14' x 20' x 8' DEPTH
- EAST (SMALL) DRAIN INCREASED DIM 6' x 10' x 6' DEPTH



TYPICAL DETENTION BASIN/ROCK TRENCH

DETAIL

NTS



NOTE:
OVER-EXCAVATE WHERE REQUIRED
TO ENSURE BOTTOM OF
EXCAVATION IS A MINIMUM OF 2'
INTO GRAVELLY MATERIAL.
BACKFILL WITH 3\"/>


TYPICAL SUMP DETAIL

DETAIL

NTS



Revisions			
Symbol	Descriptions	Date	Approved
REV.1	PROJECT REVIEW COMMENTS	8/30/11	GM

CDM Federal Programs Corporation		 US ARMY CORPS OF ENGINEERS OMAHA DISTRICT RAPID RESPONSE PROGRAM	
Designed by: WGM GROUP, MISSOULA, MT	LIBBY ASBESTOS PROJECT LIBBY, MONTANA		
Drawn by: K. HUFFSMITH	US EPA Region VIII Denver, Colorado		
Checked by: G. MCKENZIE	OU1-REMEDIAL ACTION WGM DETAILS		
Submitted by: G. MCKENZIE	Scale: FEBRUARY 2012	Sheet number: D2	Plot Scale: Design File: File R:\Libby_OU1\DWG\September 2011 No.1.dwg\02 WGM DESIGN DETAILS.dwg



1) VIEW OF THE FLOODED PORTION OF CITY SERVICES ROAD



2) COMPLETION OF SMALL/EAST DRAINAGE STRUCTURE



3) ENLARGEMENT OF SMALL/EAST DRAINAGE STRUCTURE



4) LARGE / WEST DRAINAGE STRUCTURE AND SWALE , MARKER BARRIER PLACEMENT



5) LARGE / WEST DRAINAGE STRUCTURE COMPLETION

Appendix F

Joint Site Inspection Memorandum



Memorandum

To: Rebecca Thomas, EPA RPM

From: Scott Felton, P.E., CDM Smith Project Engineer

Date: September 6, 2012

Subject: Operable Unit 1 Joint Site Inspection

On August 8, 2012, the United States Environmental Protection Agency (EPA), Montana Department of Environmental Quality (MTDEQ), Project Resources, Inc. – Environmental Restoration, Joint Venture (PRI-ER), and CDM Federal Programs Corporation (CDM Smith) conducted a joint site inspection of Operable Unit 1 (OU1) of the Libby Superfund Site. A joint site inspection is typically completed at the conclusion of construction at a given site and is required before an operational and functional determination can be made for the site. The purpose of this memorandum is to provide details on the joint site inspection and resulting action items.

The inspection was conducted on August 8, 2012. Meeting attendees included: Rebecca Thomas (EPA Remedial Project Manager [RPM]), Mike Cirian (EPA Onsite RPM), Carolyn Rutland (MTDEQ RPM), Rob Burton (PRI-ER Project Manager), Scott Felton (CDM Smith Project Engineer), and Damon Repine (CDM Smith Health and Safety Manager).

During the inspection, meeting attendees observed current site conditions and reviewed previous remediation/restoration activities (USACE 2011). Restoration activities (rip-rap placement) were on-going during the inspection along the Kootenai River adjacent to the boat ramps.

Inspection Findings and Resulting Action Items

Meeting attendees agreed that remediation activities were completed in accordance with the selected remedy outlined in the Record of Decision for OU1 (EPA 2010). However, a punch list was developed that identified items requiring further attention. These items include:

1. Reseed slopes along entrance road within Area 3;
2. Scarify and reseed Area 1 (infield) as needed during the fall of 2012;
3. Scarify and reseed Area 1 (outfield) during the fall of 2012;
4. Restore staging area between boat ramps in Area 2 (completed August 10, 2012);
5. Remove construction signs (completed August 10, 2012); and

6. Remove construction fencing from the OU1 site by the summer 2013.

References

USACE. 2011. Final Design, OU1 – Remedial Action, Libby Asbestos Project, Libby, MT. with modifications. September.

EPA. 2010. Record of Decision for the Libby Asbestos Superfund Site, The Former Export Plant, OU1, Libby, MT. May.

cc: Rebecca Thomas – EPA, Denver
Victor Ketellapper – EPA, Denver
Mike Cirian – EPA, Libby
Mary Darling – USACE, Omaha
Jeremy Ayala – USACE, Omaha
Carolyn Rutland, PhD – MTDEQ, Helena
Thomas Cook – CDM Smith, Libby
Terry Crowell – CDM Smith, Libby
Libby Project File